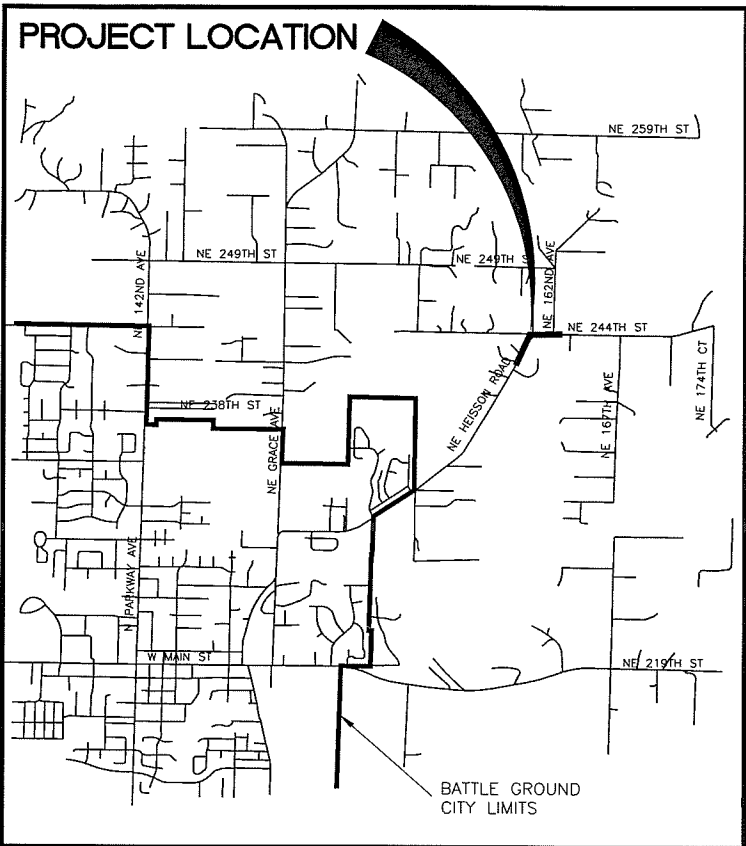
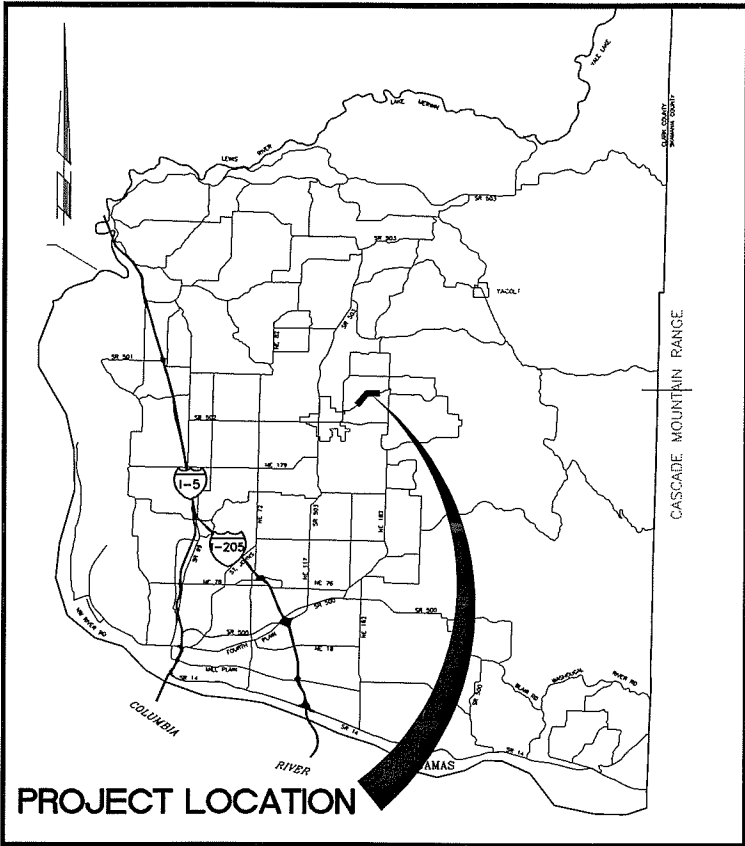


NE HEISSON ROAD
AND NE 244TH STREET INTERSECTION

PLANS FOR THE CONSTRUCTION OF
ROADWAY AND STORM DRAINAGE

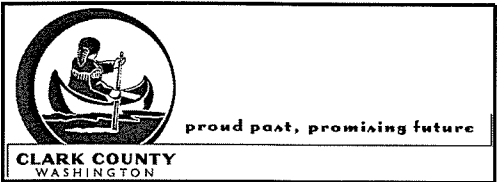


INDEX OF SHEETS

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- 2 LGN1 LEGENDS AND GENERAL NOTES
- 3 TS1 TYPICAL SECTIONS
- 4 TS2 TYPICAL SECTIONS
- 5 HV1 HORIZONTAL AND VERTICAL CONTROL
- 6 EC1 EROSION CONTROL AND ROADWAY REMOVAL
- 7 EC2 EROSION CONTROL DETAILS
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COMMISSIONERS:

MARC BOLDT, Chair
STEVE STUART, Commissioner
BETTY SUE MORRIS, Commissioner



DEPARTMENT OF
PUBLIC WORKS

ENGINEERING PROGRAM - DESIGN SECTION

Fed. Aid No.
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99% REVIEW SET

ENG #XXXX-XXXX

Quality Assurance	Project Manager	PW Director/ County Engineer
Bruce Klug, P.E.	Don Andrews, P.L.S.	Peter Capell, P.E.

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Recommended for Approval

Grading _____ Erosion _____

Storm Water Plan _____

Development Review Manager _____ Date _____

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LEGEND	
	ROW LINE
	NEW EDGE OF PAVEMENT
	NEW CURB FACE LINE
	NEW CURB BACK LINE
	NEW SIDEWALK
	NEW CENTER LINE
	NEW FENCE LINE
	NEW STORM DRAIN OR CULVERT
	NEW FILL LIMITS
	NEW CUT LIMITS
	SAWCUT LINE
	PERMANENT SLOPE EASEMENT
	NEW SILT FENCE
	EXISTING EDGE OF PAVEMENT
	EXISTING CURB LINE
	EXISTING CENTER LINE
	EXISTING FENCE LINE
	EXISTING TELEPHONE LINE
	EXISTING WATER LINE
	EXISTING UNDERGROUND ELECTRIC
	EXISTING SANITARY SEWER LINE
	EXISTING STORM DRAINAGE
	EXISTING GAS LINE
	EXISTING CULVERT
	EXISTING DITCH CENTER LINE
	EXISTING GUARDRAIL

SYMBOLS	
	NEW CATCH BASIN (CB)
	NEW MANHOLE (MH)
	NEW CURB INLET (CI)
	NEW COMBINATION CURB INLET (CCI)
	NEW MAIL BOX
	NEW HANDICAP RAMP
	CURVE TABLE
	EXISTING TRANSFORMER
	EXISTING ELEC TOWER
	EXISTING SANITARY SEWER MH
	EXISTING FIRE HYDRANT
	EXISTING CLEAN OUT
	EXISTING GAS VALVE
	EXISTING WATER METER
	EXISTING WATER VALVE
	EXISTING SIGNAL POLE
	EXISTING TELEPHONE VAULT
	EXISTING TELEVISION BOX
	EXISTING WELL
	EXISTING BRUSH LINE
	EXISTING HEDGE
	EXISTING CURB INLET (CI)
	EXISTING CATCH BASIN (CB)
	EXISTING STORM MH
	EXISTING MISC MH
	EXISTING SHRUB
	EXISTING CONIFEROUS TREE
	EXISTING DECIDUOUS TREE
	EXISTING SIGN
	EXISTING DECIDUOUS TREE
	EXISTING J BOX
	EXISTING TELEPHONE MANHOLE
	EXISTING TELEPHONE POLE
	EXISTING LIGHT
	EXISTING GUY ANCHOR
	EXISTING POWER POLE
	EXISTING MAIL BOX
	EXISTING TELEPHONE PEDESTAL
	EXISTING SPRINKLER HEAD
	TRAVERSE POINT
	TEST HOLE

GENERAL NOTES

1. SURVEY DATUM PER CLARK COUNTY.
2. EXISTING UTILITIES SHOWN ON THE PLANS ARE PER SURFACE LOCATIONS, RECORD DRAWINGS, AND LIMITED POTHOLE DATA. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. IF CONFLICT EXISTS, NOTIFY THE ENGINEER AND UTILITY COMPANY. PROCEED ONLY AS DIRECTED AND PER STANDARD POLICY AND REGULATIONS (INCIDENTAL TO STORM SEWER PIPE).
3. ALL NECESSARY CONSTRUCTION SURVEY SHALL BE PROVIDED AT NO COST TO THE CONTRACTOR. HOWEVER, THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING NEEDED SURVEY STAKES DESTROYED THROUGH NORMAL OPERATIONS, NEGLIGENCE, OR INATTENTION.
4. AT THE END OF EACH DAY, THE CONTRACTOR SHALL CLEAN UP THE PROJECT AREA AND LEAVE IT IN A NEAT AND SECURED MANNER. UPON COMPLETION, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL.
5. CONTRACTOR TO COORDINATE UTILITY RELOCATIONS WITH CLARK PUBLIC UTILITIES FOR POWER AND WATER, QWEST FOR TELEPHONE, NW NATURAL FOR GAS, COMCAST FOR CABLE TV.
6. CONTRACTOR SHALL PROTECT EXISTING WATER SERVICE LINES. ALL DISTURBED WATER SERVICE LINES SHALL BE REPAIRED AS DIRECTED. ALL RELOCATED METERS WILL BE RESET IN ACCORD WITH CLARK PUBLIC UTILITIES STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF EXISTING WATER SERVICE LINES DESTROYED THROUGH NEGLIGENCE AND/OR INATTENTION.
7. CONTRACTOR TO MAINTAIN INGRESS AND EGRESS FROM ALL PRIVATE PROPERTY DRIVEWAYS DURING CONSTRUCTION.

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DATE 04/30/06

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SHEET 2 OF 16

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CLARK COUNTY WASHINGTON

PROFESSIONAL ENGINEER

EXPIRES: JAN. 1, 2008

ENGINEERING PROGRAM

DESIGN SECTION

NE HEISSON ROAD

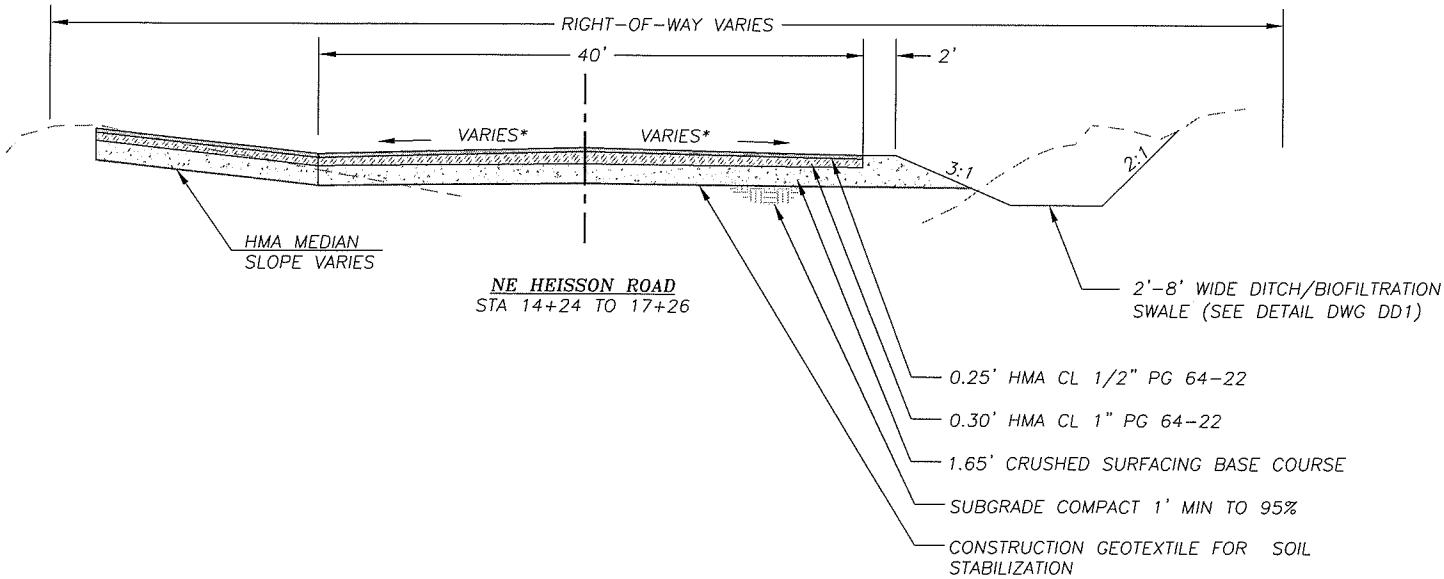
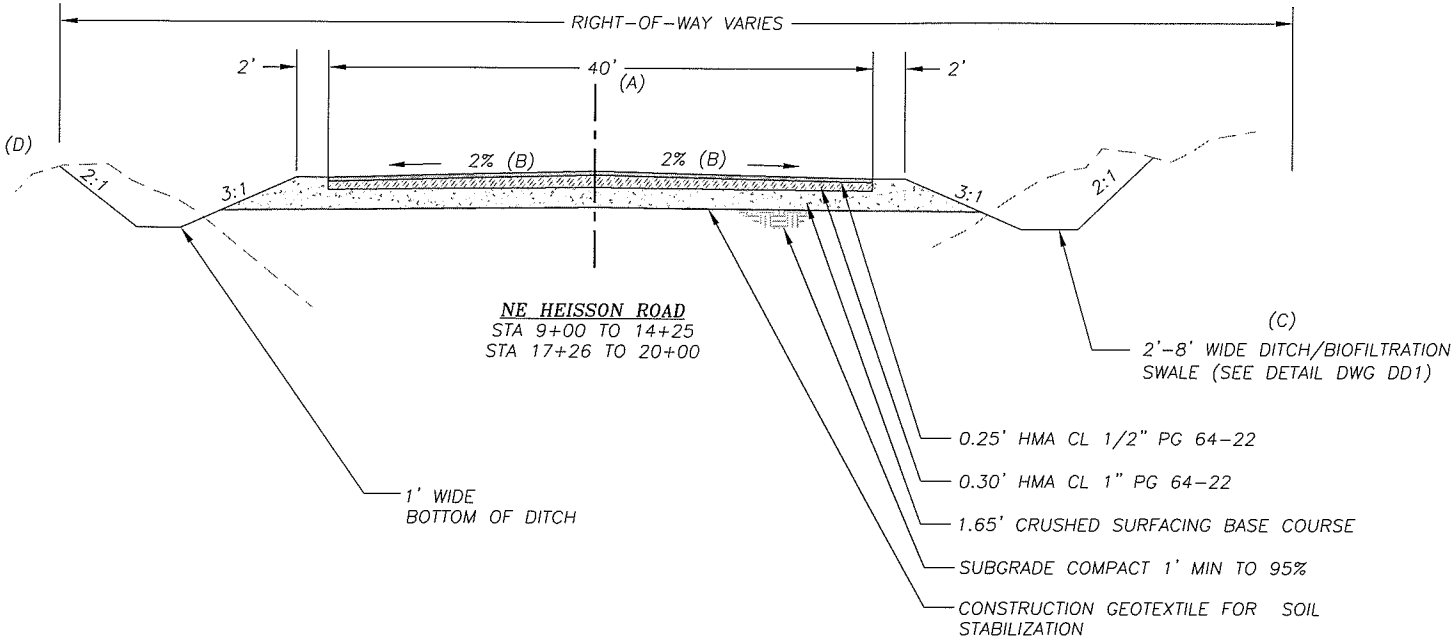
LEGENDS AND GENERAL NOTES

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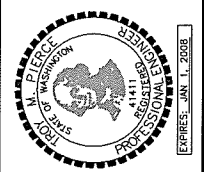
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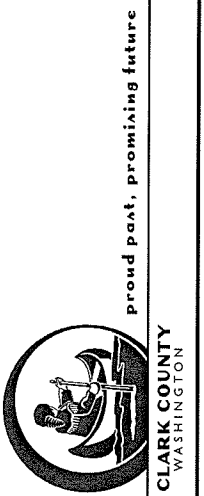
- NOTES:
- (A) LEFT: TAPER FROM $\pm 10.5'$ LT. AT STA 9+00 TO 20' LT. AT STA 10+18.
- TAPER FROM 20' LT. AT STA 19+58 TO 11' LT. AT STA 20+00.
- RIGHT: TAPER FROM $\pm 10.5'$ RT. AT STA 9+00 TO 20' RT. AT STA 9+41.
- TAPER FROM 20' RT. AT STA 19+10 TO $\pm 11'$ RT. AT STA 20+00.
- (B) SLOPE VARIES. SEE SUPERELEVATION DIAGRAM ON DWGS PP1-PP3.
- (C) DITCH (RT) ENDS AT 18+00
- (D) SLOPE OUT OF DITCH BECOMES 4:1 (SEE 244TH SECTION ON DWG TS2)

NOTE:
DRIVEWAYS AND THE HMA MEDIAN SHALL BE CONSTRUCTED TO THE FOLLOWING SECTION:
0.25' HMA CL 1/2" PG 64-22
0.50 CRUSHED SURFACING BASE COARSE

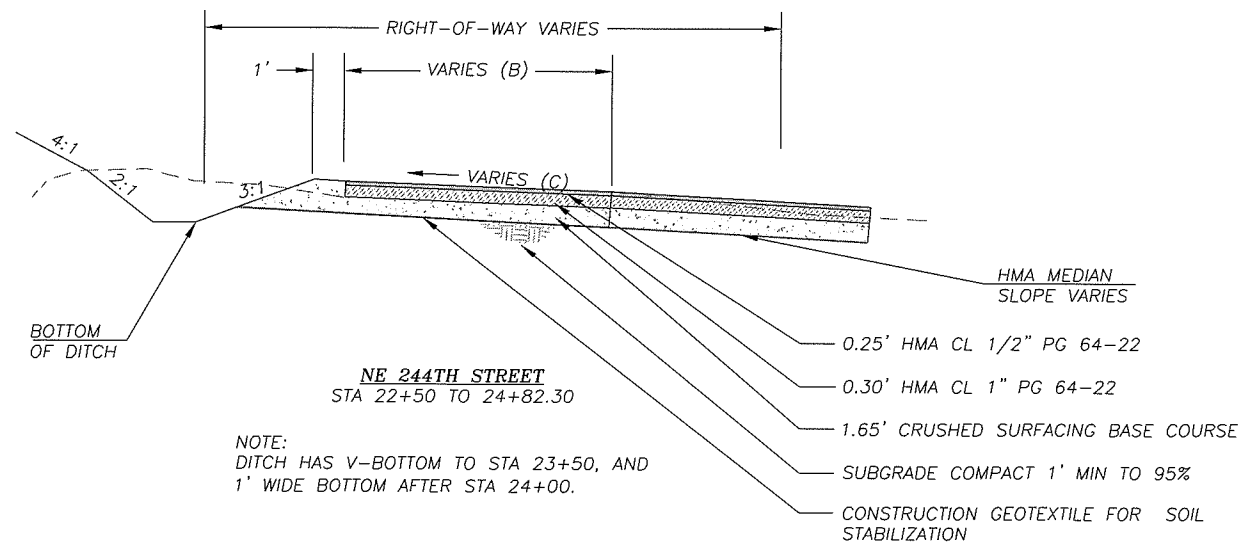
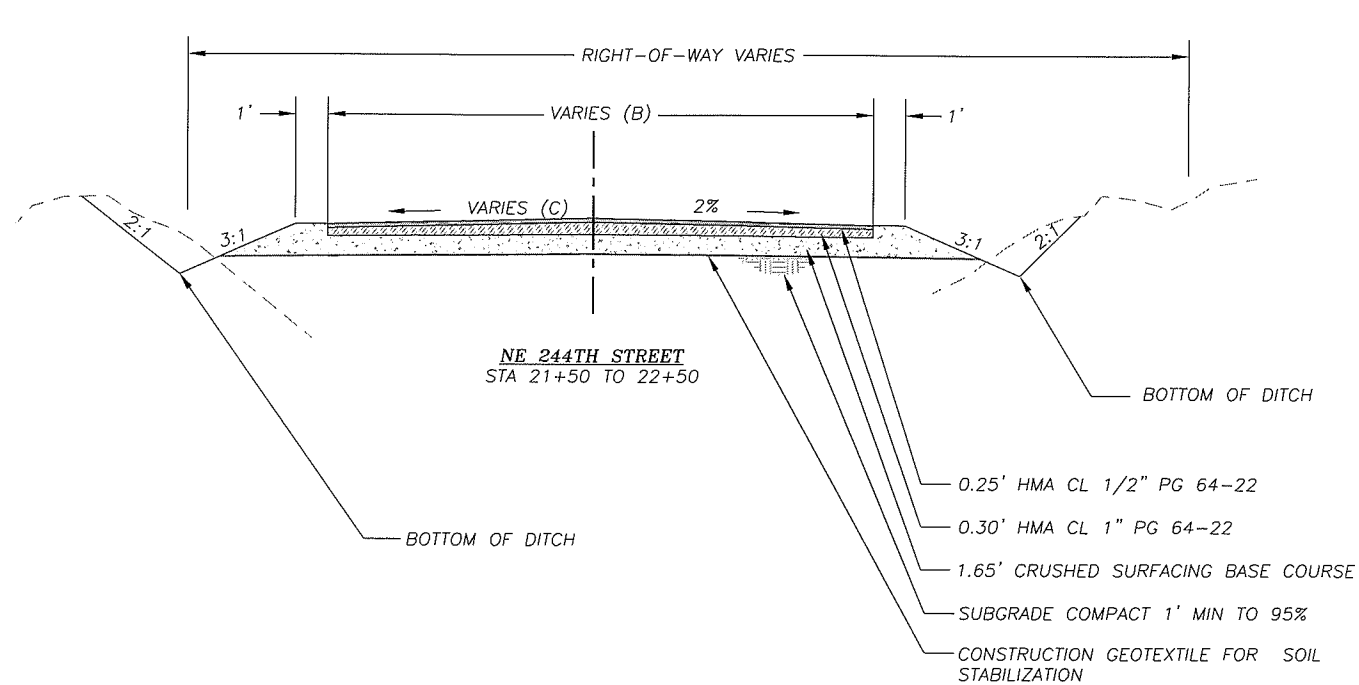
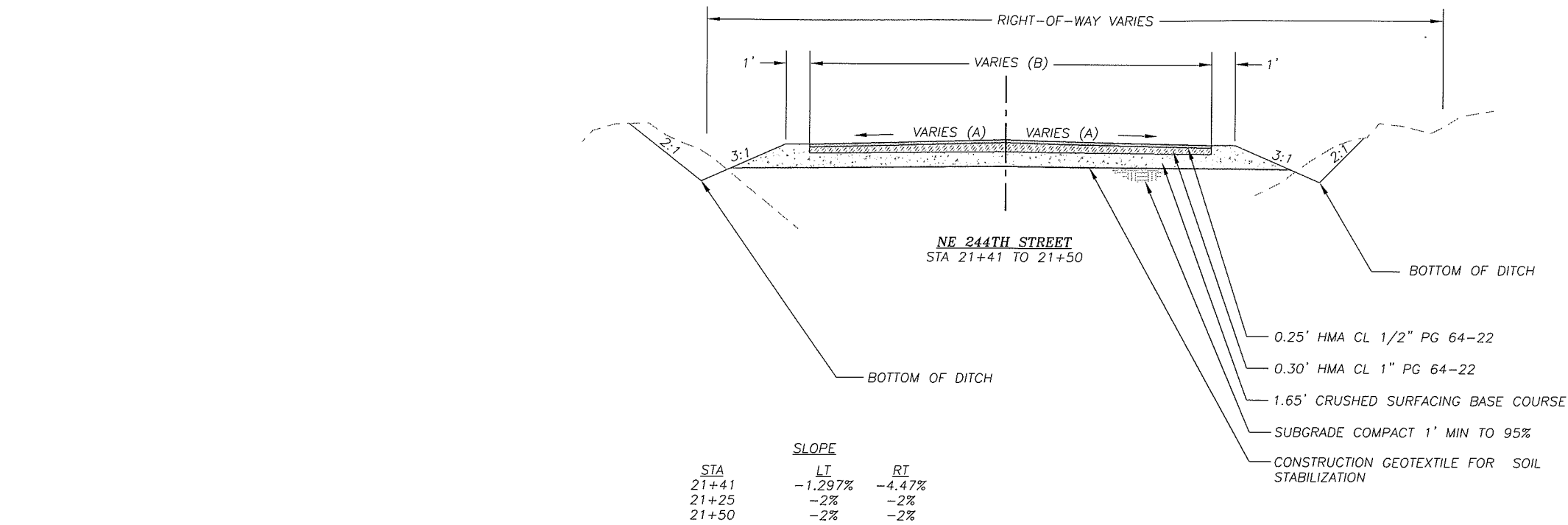
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CRP	330722
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DWG.	TS1
SHEET	3 OF 16



ENGINEERING PROGRAM
DESIGN SECTION
NE HEISSON ROAD
TYPICAL SECTIONS



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NOTES:

(A) CROSS SLOPE VARIES FROM STA 20+41 TO 21+25.

(B) ROADWAY WIDTHS AND TAPERS SHOWN ON DWGS PP1-PP5.

(C) SLOPE VARIES. SEE SUPERELEVATION DIAGRAM ON DWG PP4.

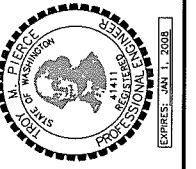
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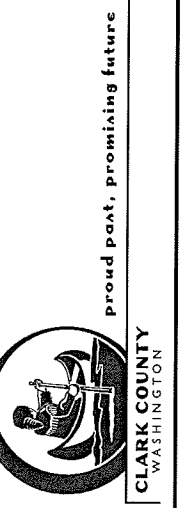
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VERT. SEE SHEET
DATE 04/30/06
DWG: TS2
SHEET 4 OF 16

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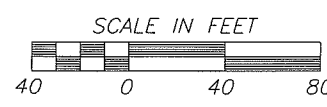
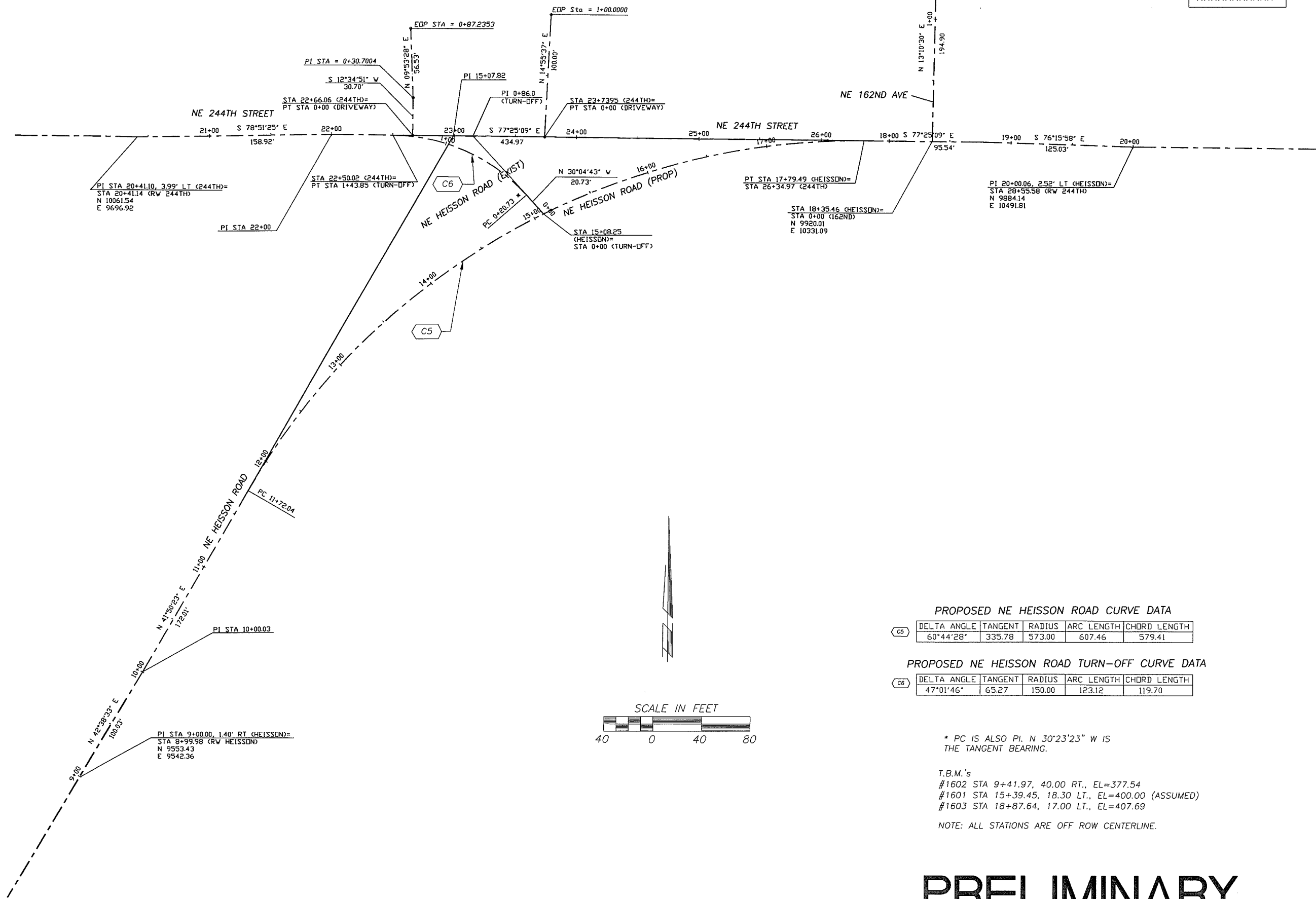
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ENGINEERING PROGRAM
DESIGN SECTION
NE HEISSON ROAD
TYPICAL SECTIONS



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PROPOSED NE HEISSON ROAD CURVE DATA					
C5	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
	60°44'28"	335.78	573.00	607.46	579.41

PROPOSED NE HEISSON ROAD TURN-OFF CURVE DATA					
C6	DELTA ANGLE	TANGENT	RADIUS	ARC LENGTH	CHORD LENGTH
	47°01'46"	65.27	150.00	123.12	119.70

* PC IS ALSO PI. N 30°23'23" W IS THE TANGENT BEARING.

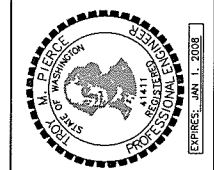
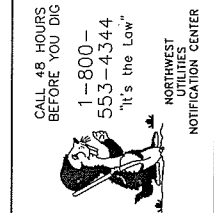
T.B.M.'s
#1602 STA 9+41.97, 40.00 RT., EL=377.54
#1601 STA 15+39.45, 18.30 LT., EL=400.00 (ASSUMED)
#1603 STA 18+87.64, 17.00 LT., EL=407.69

NOTE: ALL STATIONS ARE OFF ROW CENTERLINE.

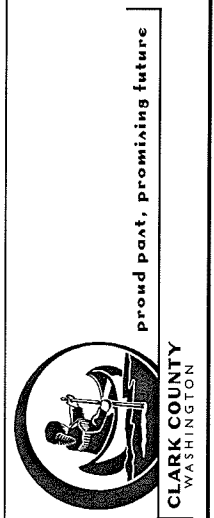
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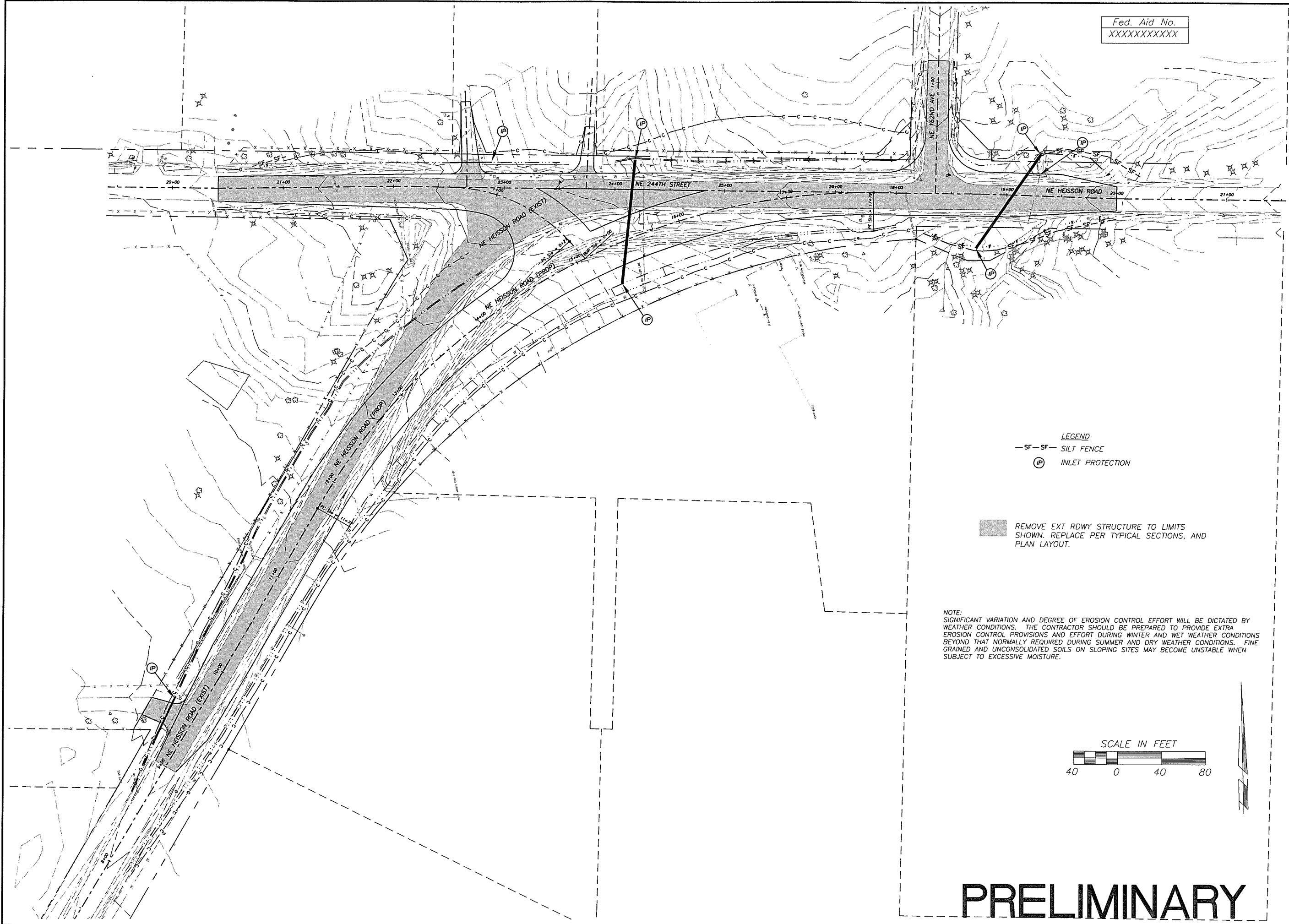
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OF 16	



ENGINEERING PROGRAM
DESIGN SECTION
NE HEISSON ROAD
HORIZONTAL AND VERTICAL CONTROL



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SHEET	6 OF 16

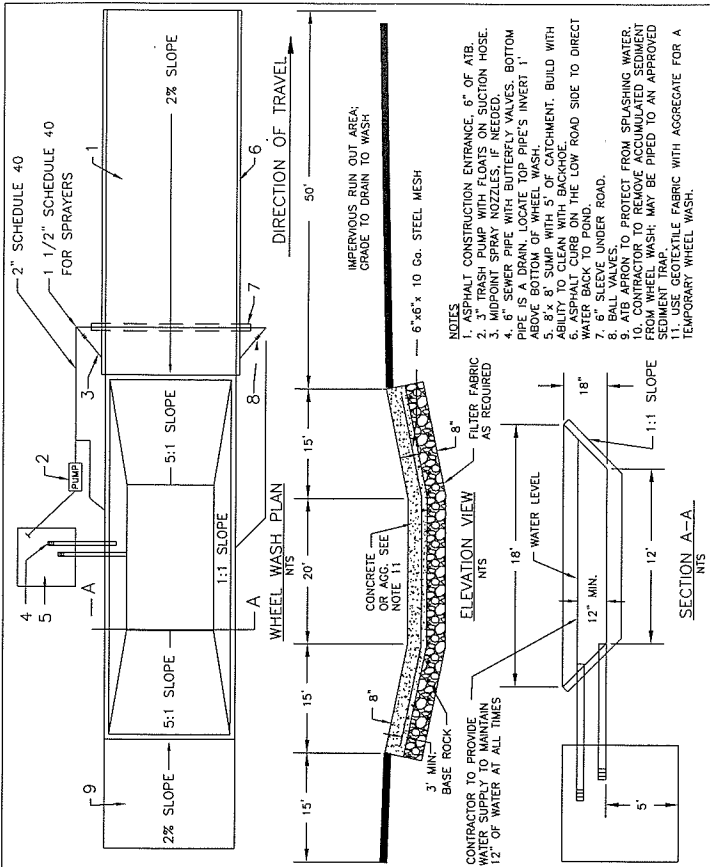
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ENGINEERING PROGRAM
DESIGN SECTION
NE HEISSON ROAD
EROSION CONTROL AND ROADWAY REMOVAL

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WHEEL WASH
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01/01/04
DATE

STANDARD E-15
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 06/02/02

STANDARD NOTES FOR EROSION CONTROL PLAN

- The Contractor shall install and maintain BMP's as shown and perform all actions necessary to prevent erosion, and control sediment from leaving the construction site. Site Contractor shall comply with Clark County Code Chapter 40.380.050.
- All erosion control measures shall be in-place and in working condition prior to disturbing and exposing any soil surfaces (i.e. silt fence, construction entrance, sedimentation barriers, sedimentation traps).
- All erosion prevention and control BMP's shall be maintained and repaired as needed to insure continued performance of their intended function. Needed repairs shall be made as soon as practicable. They are to remain in place and operational during all phases of construction. Construction activities shall not continue or resume until repairs to erosion control facilities are made and the facilities are functional. Any sediment leaving the site or discharging to a sensitive area shall be stopped and controlled immediately. Contaminated areas shall be cleaned and restored.
- Clearing limits and work area limits shall be delineated and marked. Do not disturb more area than needed for construction requirements.
- All sensitive or critical areas (wetlands, steep slopes, natural waterways), and buffers shall all be clearly delineated and clearly marked, and protected from sediment deposition.
- Sediment laden runoff shall be prevented from entering all existing storm water catch basins and inlets affected by construction.
- No exposed, bare soils shall remain unstabilized for more than two days during the period October 1 thru April 30 or for more than seven days during the period of May 1 through September 30. All disturbed soil surfaces shall be stabilized by a suitable application of "Best Management Practices".
- Where feasible, no more than 500 feet of trench shall be open at one time. Excavated material shall be placed on the up-hill side of trenches provided it does not conflict with safety requirements.
- Dewatering devices shall discharge into a sediment trap or sediment pond. No discharge shall be made to a paved street or stormwater collection system without first removing sediment.
- Cut and fill slopes shall be constructed in a manner that will minimize erosion. Erosion shall be controlled and prevented by such measures as roughening the surface, installation of interceptor ditches, terracing, covering with matting, mulch or plastic sheeting. Runoff shall be prevented from entering a slope and from undercutting the base of slopes.
- Any soil or debris transported onto roadways and sidewalks shall be removed. Deposits shall be completely removed by shoveling and/or sweeping. Washing shall not be utilized unless specifically approved in writing by the County.
- All permanent infiltration systems shall be isolated and protected from sediment laden runoff entering to avoid risk of reducing the ability of the systems to infiltrate. Isolation and protection shall not be removed until the drainage area tributary to the system is completely stabilized.

CONTINUED ON SHEET 2

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STANDARD NOTES FOR EROSION CONTROL PLAN
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01/01/04
DATE

STANDARD ECN1
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 06/02/02

STANDARD NOTES FOR EROSION CONTROL PLAN (CONTINUED)

- All conveyance channels, both temporary and permanent shall be stabilized to prevent erosion of the channel. Stabilization shall extend to areas at outlets and downstream reaches vulnerable to erosion resulting from flow discharging from the channel.
- If BMP's shown are utilized but are insufficient to prevent sediment from reaching water bodies, adjacent properties, or public rights-of-way; additional BMP's shall be implemented immediately to prevent further encroachment of sediment.
- Stabilized areas shall be provided for employee parking and storage of construction materials. Erodeable stockpiles of earthen materials, such as topsoil, silty and clayey soils; and landscape materials, shall be covered when not being incorporated in the work. Erosion control BMP's shall be utilized as necessary to prevent sediment laden runoff from leaving or sediment being transported from these areas from vehicle activity.
- All pollutants other than sediment that occur during construction shall be handled and disposed of in a manner that does not cause contamination of storm water.
- The Contractor shall keep an inspection log of the condition of the erosion control facilities. Erosion control facilities shall be inspected at least weekly and after each rainfall. The inspection log shall be kept at the project site at a designated location and shall be available for review by the County. An individual that has successfully completed the County's Erosion Control Certification course shall perform inspections and maintain the log.
- All temporary BMP's shall be removed within 30 days after final site stabilization is achieved. Trapped sediment shall be deposited and stabilized on site. Areas disturbed resulting from removal shall be permanently stabilized.
- Construction shall not be considered complete and acceptable until all disturbed soil surfaces have been protected from erosion with permanent landscaping, covering with impervious surfaces, restored to original undisturbed condition or permanently stabilized.
- Vegetated stabilization and landscaping shall be fertilized, watered and maintained to insure that growth of vegetation is established and sustained.
- During dry weather construction periods the contractor shall provide project-specific dust control measures that may include: Seeding, Mulching, Matting, Water, Tackifier, or Chemical Soil Stabilizers. The contractor shall maintain the dust control measures through dry weather periods until all disturbed areas have been stabilized. Immediately re-stabilize areas disturbed by contractor's operations or other activities (wind, water, vandalism, etc.).
- Entry onto the construction site shall be restricted to a single approved entrance as shown on the plan.
- Maintenance and repair of heavy equipment and vehicles which involve potential contaminants (oil, solvents, hydraulic fluid, etc.) must be conducted in a manner which prevents contamination of soils, surface water and ground water. Tarps, drip pans, or other appropriate measures shall be used as necessary.
- Stripping, topsoil, and unsuitable material stockpiles shall be hydroseeded with "regreen wheat x wheat grass hybrid" by Hobbs and Hobkins (or approved equal). Maintenance of stockpile areas and reapplication of hydroseed covering shall be required if bare soil is present. During winter and wet weather conditions, stockpiles shall be covered with plastic sheeting per detail E-16.

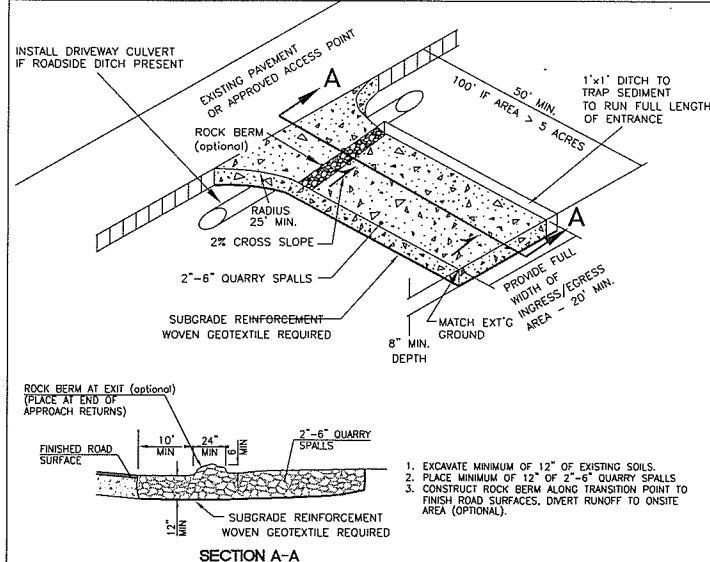
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STANDARD NOTES FOR EROSION CONTROL PLAN
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STANDARD ECN2
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 01/22/03



NOTES:

- FOR DEVELOPMENT PROJECTS REVIEWED BY ENGINEERING SERVICES. NOT FOR USE WITH SINGLE FAMILY OR DUPLEX RESIDENTIAL BUILDING PERMITS. SEE BUILDING DEPT. FOR GRAVEL CONSTRUCTION ENTRANCE PLAN.
- INSTALL WOVEN GEOTEXTILE FABRIC TO PREVENT SUB-SOIL PUMPING.
- VEHICLE WASHDOWN AREA, IF REQUIRED, IS TO BE INSTALLED AND USED TO REMOVE SEDIMENT FROM VEHICLES THAT ARE ABOUT TO ENTER AN ESTABLISHED ROAD.
- WASHDOWN AREA TO BE MADE UP OF CLEAN 2'-6" QUARRY SPALLS, 1" DEEP (MIN) OVER WOVEN GEOTEXTILE FABRIC. WASHDOWN AREA TO BE FULL WIDTH OF ENTRANCE AND 50' (MIN), AND 100' IF EXPOSED SOIL IS OVER 5 ACRES.
- AT TIME OF PRECONSTRUCTION MEETING, THE COUNTY INSPECTOR MAY REQUIRE THE ENTRANCE TO BE PAVED TO THE EDGE OF THE RIGHT-OF-WAY PRIOR TO THE INSTALLATION OF A WASHDOWN ENTRANCE TO AVOID DAMAGE TO THE EXISTING ROADWAY.
- THE RESPONSIBLE EROSION CONTROL INDIVIDUAL IS TO ENSURE THAT ALL VEHICLES USE THIS ENTRANCE AND ARE TO BE INSPECTED AND CLEANED OF SOILS BEFORE LEAVING PROJECT, AND THAT THE ENTRANCE IS TO BE KEPT CLEAN AT ALL TIMES.

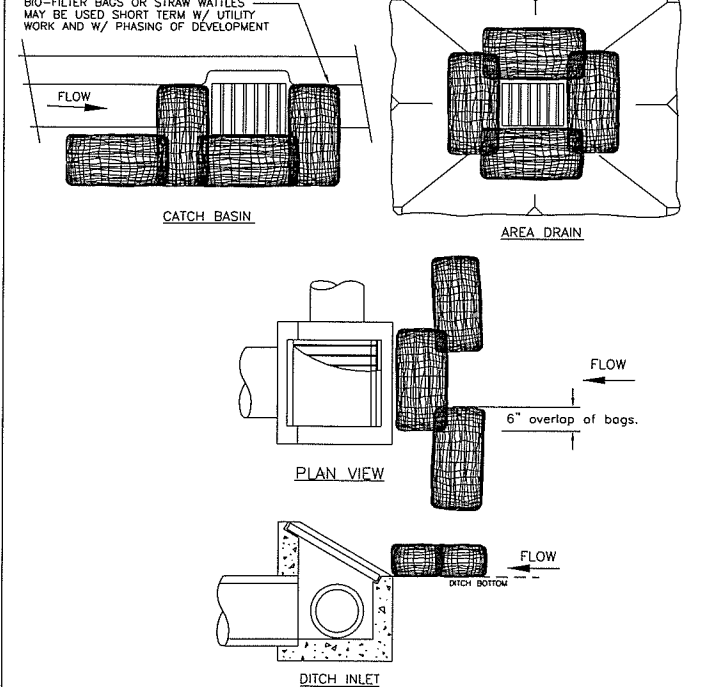
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STANDARD CONSTRUCTION ENTRANCE
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01/01/04
DATE

STANDARD E-1
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 07/07/03

STANDARD NOTES FOR EROSION CONTROL PLAN (CONTINUED)



NOTES:

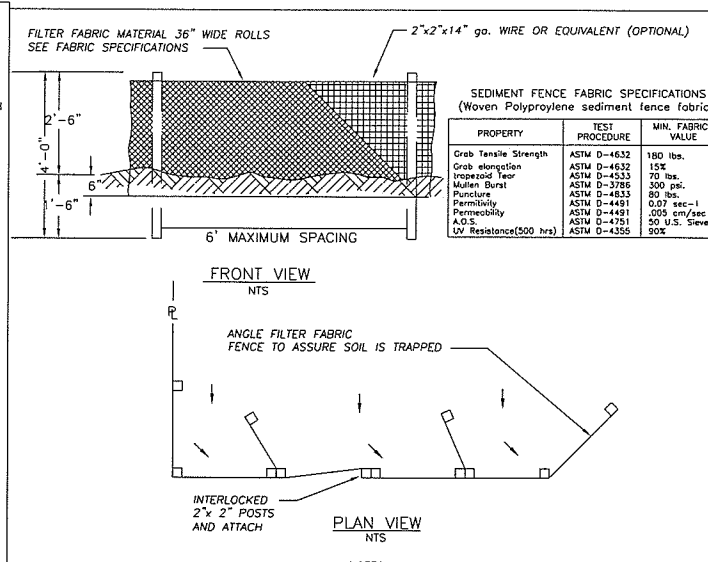
- ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPE.
- BIO-FILTER BAGS SHOULD BE STAKED WHERE APPLICABLE USING (2) 1"x2" WOODEN STAKES OR APPROVED EQUAL PER BAG.
- STRAW WATTLES MUST BE STABILIZED BY ATTACHING WIRE CUPS TO THE CATCH BASIN PER MANUFACTURES SPECIFICATIONS.
- INLET PROTECTION MUST BE REGULARLY INSPECTED BY THE EROSION CONTROL INDIVIDUAL TO INSURE PROPER PLACEMENT/FUNCTION AND MAINTENANCE.
- SEE INLET PROTECTION NOTES STD. PLAN E-3

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INLET PROTECTION TYPE 4
BIOFILTER BAGS
APPROVED
01/01/04
DATE

STANDARD E-3c
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 06/02/02



- NOTES:
- THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS, IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED. (SEE FABRIC SPECIFICATIONS ABOVE)
 - BURY BOTTOM OF FILTER FABRIC 6" VERTICALLY BELOW FINISHED GRADE.
 - POST ARE TO BE 2"x2" FIR, PINE OR STEEL FENCE POSTS.
 - POST TO BE INSTALLED ON UPHILL SIDE OF SLOPE.
 - COMPACT BOTH SIDES OF FILTER FABRIC TRENCH.
 - SEDIMENT FENCE TO BE SPACED ON SLOPES PER TABLE BELOW.

% SLOPE	SLOPE	MAX. SPACING ON SLOPE
10% FLATTER	10:1 OR FLATTER	300 ft.
10% < 15%	10:1 to < 7.5:1	150 ft.
15% < 20%	7.5:1 to < 5:1	100 ft.
20% < 30%	5:1 to < 3.5:1	50 ft.
30% < 50%	3.5:1 to < 2:1	25 ft.

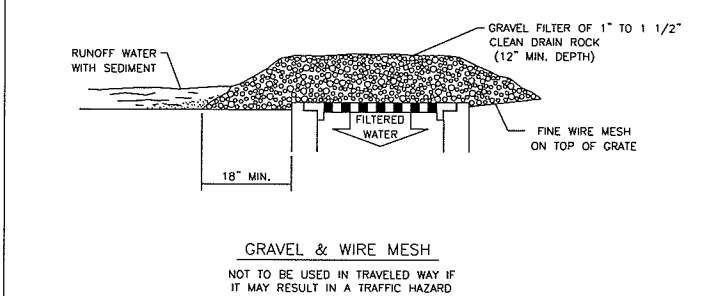
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STANDARD SEDIMENT FENCE
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01/01/04
DATE

STANDARD E-4
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 07/07/03

STANDARD NOTES FOR EROSION CONTROL PLAN (CONTINUED)



INLET PROTECTION NOTES:

- INLET PROTECTION IS INTENDED TO PREVENT COARSE SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS BY FILTERING RUNOFF AND RETAINING SEDIMENT BEFORE IT REACHES A DRAINAGE OR STORM SEWER SYSTEM.
- PLACE INLET PROTECTION IN AREAS WHERE WATER CAN POND, AND WHERE PONDING WILL NOT HAVE ADVERSE IMPACTS.
- INLET PROTECTION MUST ALLOW FOR OVERFLOW IN A SEVERE STORM EVENT.
- INLET PROTECTION TYPES INCLUDE: TYPE 1 - GRAVEL AND WIRE MESH
TYPE 2 - MASONRY AND ROCK
TYPE 3 - SEDIMENT FENCE
TYPE 4 - BIOFILTER BAGS
TYPE 5 - CATCH BASIN INSERT
- INSPECT ONCE PER WEEK ON ACTIVE SITES, ONCE EVERY TWO WEEKS ON INACTIVE SITES, AND WITHIN 24 HOURS FOLLOWING A 0.5 INCH RAIN EVENT.
- CLEAN INLET PROTECTION DURING AND AFTER EACH SIGNIFICANT STORM AND REMOVE SEDIMENT FROM BEHIND STRUCTURE AFTER EVERY STORM.
- IF ROCK BECOMES CLOGGED WITH SEDIMENT, IT MUST BE CAREFULLY REMOVED FROM THE INLET AND EITHER CLEANED OR REPLACED.
- ASSESS THE IMPACT OF ALLOWING WATER TO POND AT THE INLET AND PROVIDE AN OVERFLOW WEIR OR SOME OTHER TYPE OF RELIEF AS NEEDED.
- CONSIDER THE EFFECT OF PLACING OBSTRUCTIONS AT INLETS ON GRADE MAY HAVE ON THEIR EFFICIENCY.
- USE MECHANICAL MEANS TO REMOVE SEDIMENT DEPOSITS (SHOVEL, BROOM, SWEEPER/VACUUM UNIT).
- REMOVE SEDIMENT ACCUMULATED ON OR AROUND THE PROTECTION AS NEEDED TO MAINTAIN INTENDED FUNCTION.
- REPAIR OR REPLACE MATERIALS AS NEEDED TO ENSURE PROPER FUNCTION.

NO.	REVISIONS	DATE	BY
1			

Department of Public Works
CLARK COUNTY
WASHINGTON
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INLET PROTECTION TYPE 1
GRAVEL AND WIRE MESH
APPROVED
01/01/04
DATE

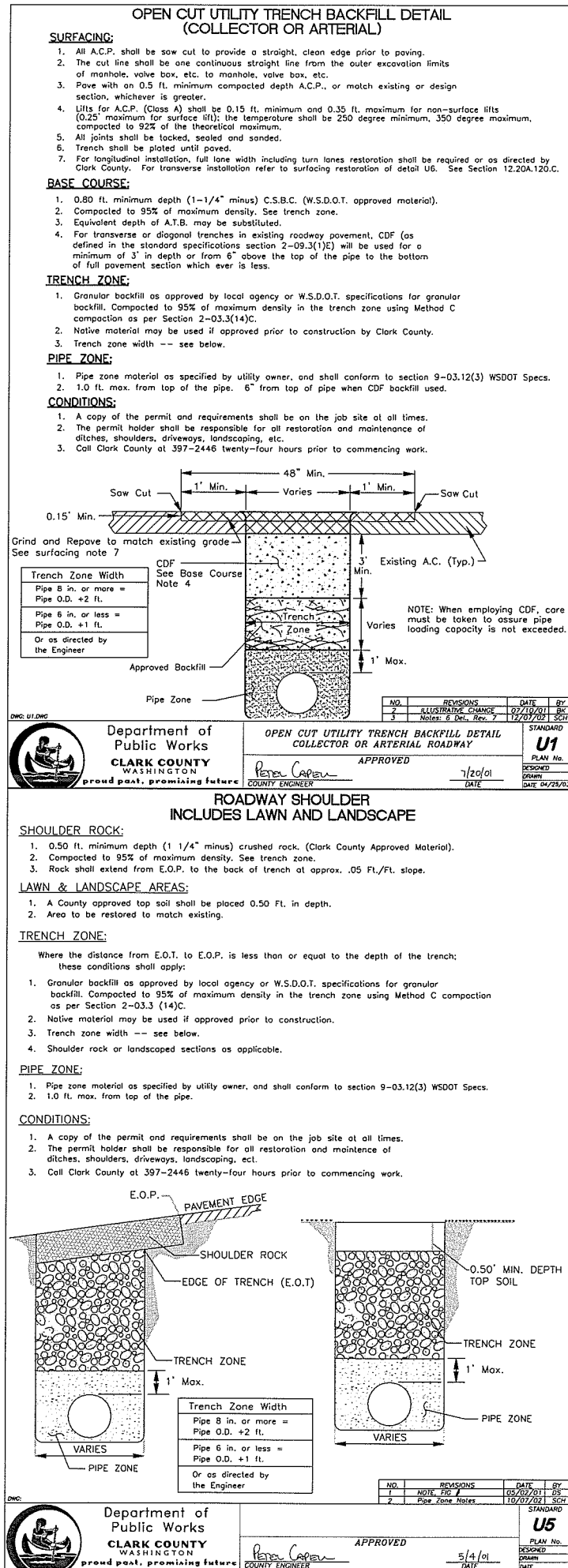
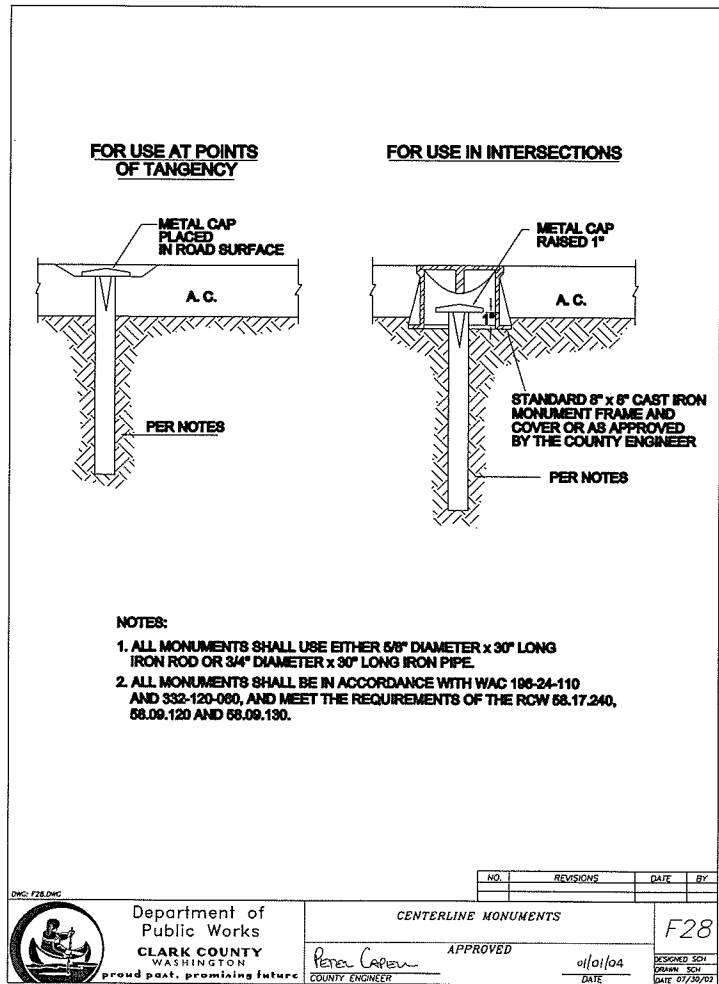
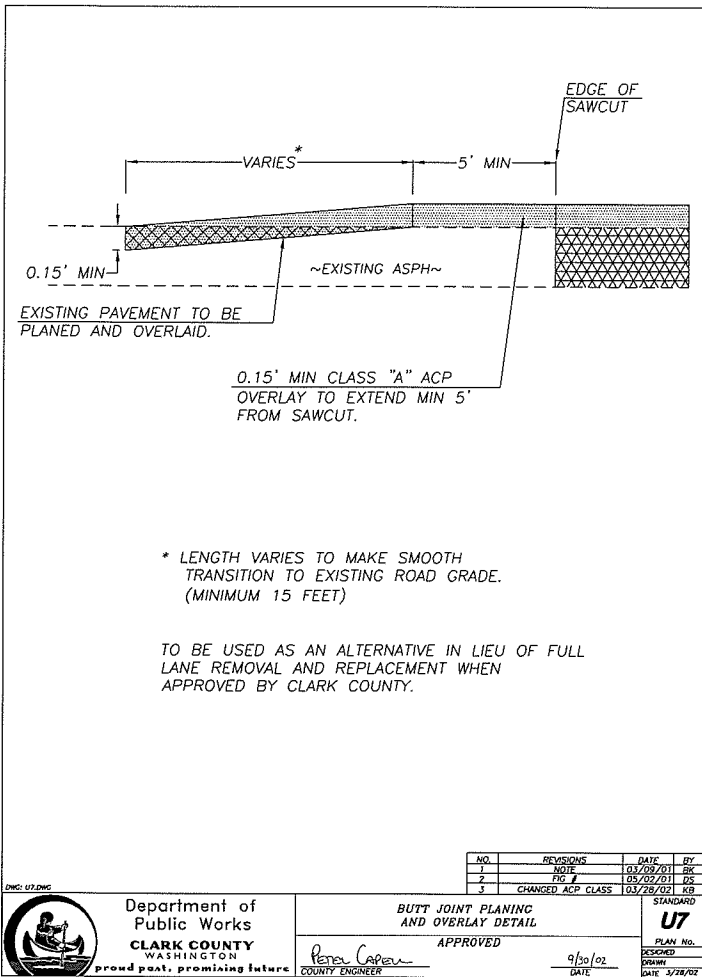
STANDARD E-3
PLAN No.
DESIGNED SCH
DRAWN SCH
DATE 06/02/02

ENGINEERING PROGRAM
DESIGN SECTION
NE HEISSON ROAD
EROSION CONTROL DETAILS

DESIGNED TP/JM
DRAWN RK
CRP 330722
HOR. SEE SHEET
VERT. SEE SHEET
DATE 04/30/06
DWG: EC2
SHEET 7 OF 16

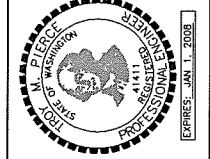
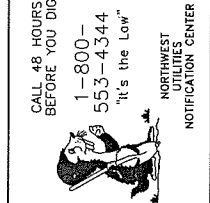
CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Low"
NORTHWEST
NOTIFICATION CENTER
EXPIRES: JAN. 1, 2008

CLARK COUNTY
WASHINGTON
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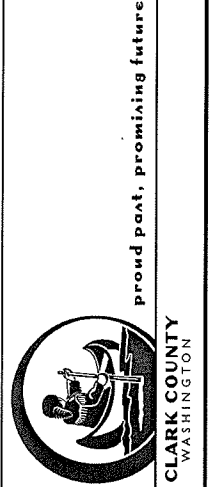


Fed. Aid No.
XXXXXXXXXXXX

DESIGNED	TP/JM
DRAWN	RK
CRP	330722
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	04/30/06
DWG.	RD1
SHEET	8 OF 16



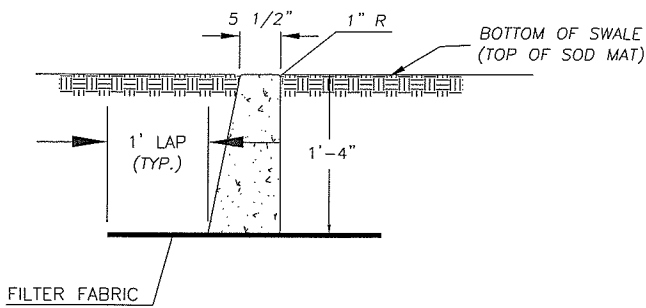
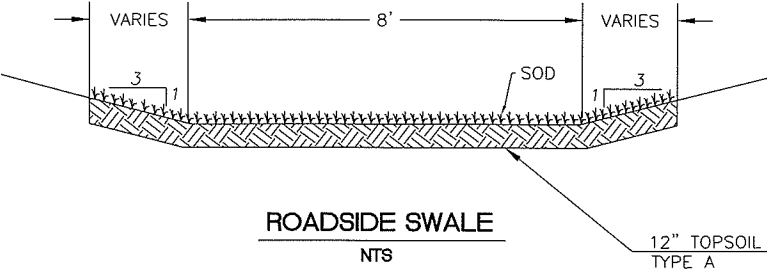
ENGINEERING PROGRAM
DESIGN SECTION
NE HEISSON ROAD
ROADWAY DETAILS



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NOTES

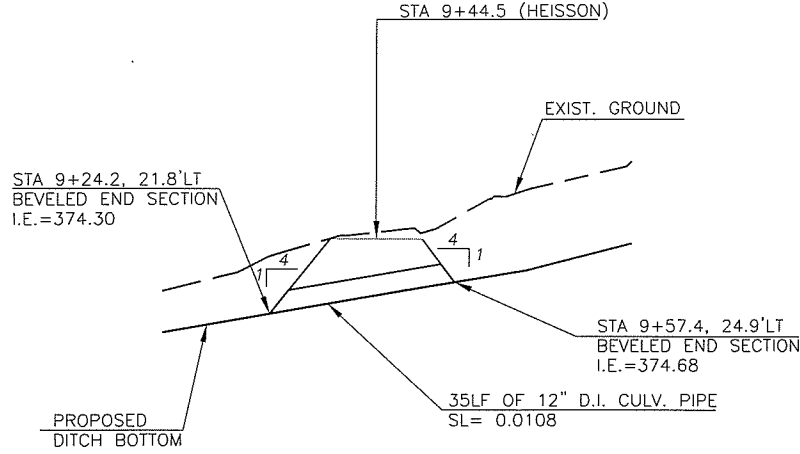
1. TOP SOIL TO BE TYPE A.
2. INSTALL SOD ON SWALE BOTTOM IN ALL DISTURBED AREAS WITHIN THE SWALE.
3. SWALE VEGETATION TO BE WELL ESTABLISHED PRIOR TO PAVING.



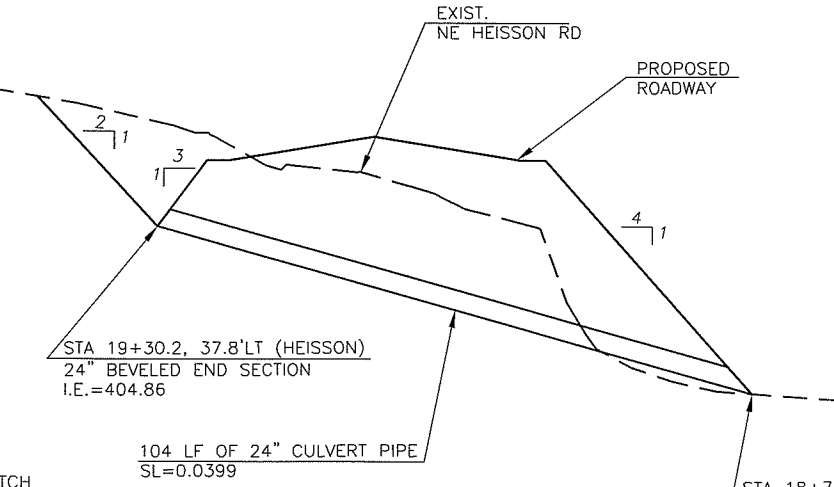
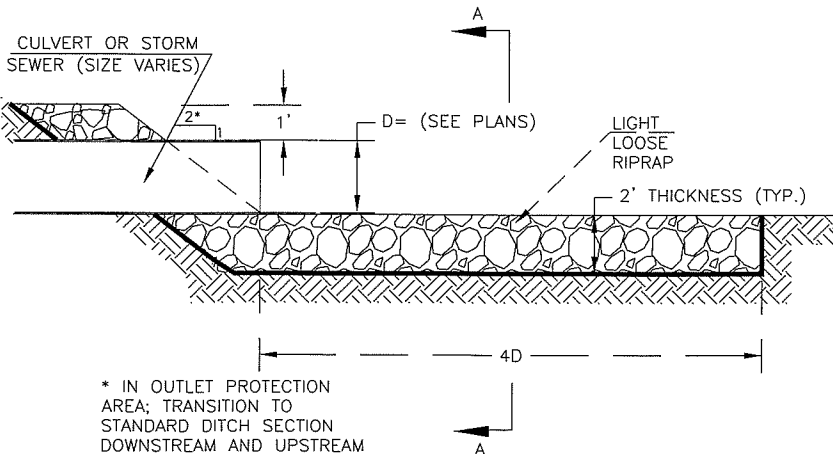
- NOTES:
- 1) PROVIDE SPREADER AT LOCATIONS SHOWN ON DWG PP1 & PP2.
 - 2) SET CURB LEVEL AND FLUSH WITH SWALE BOTTOM TO PROVIDE UNIFORM DISTRIBUTION OF FLOW OVER THE TOP OF THE CURB.
 - 3) EXTEND CURB 2' INTO SIDESLOPES
 - 4) FILTER FABRIC SHALL BE CONSTRUCTION GEOTEXTILE FOR SEPARATION OR SOIL STABILIZATION (WSDOT 9-33, TABLE 3)

FLOW SPREADER CURB
NTS

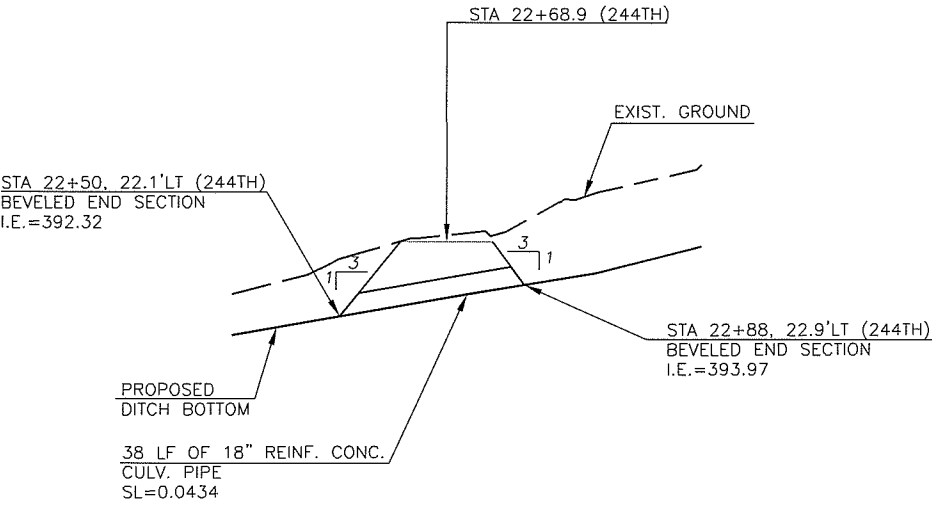
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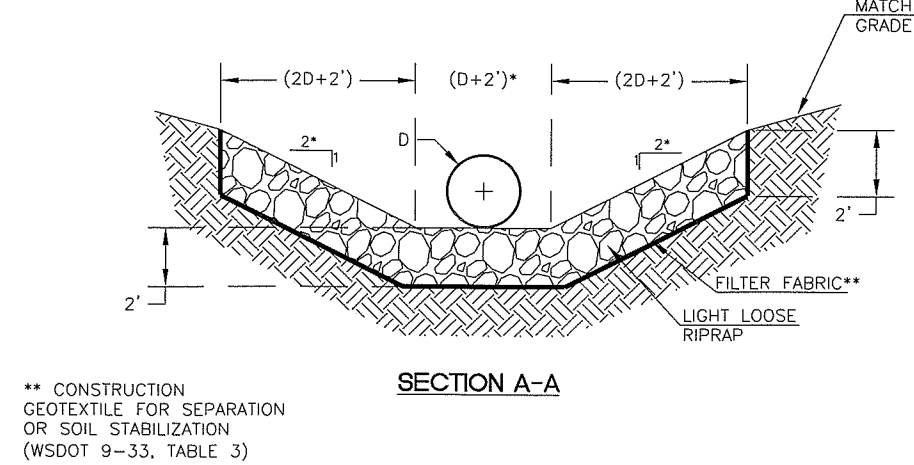
DRIVEWAY CULVERT WEST OF NE HEISSON ROAD
NTS



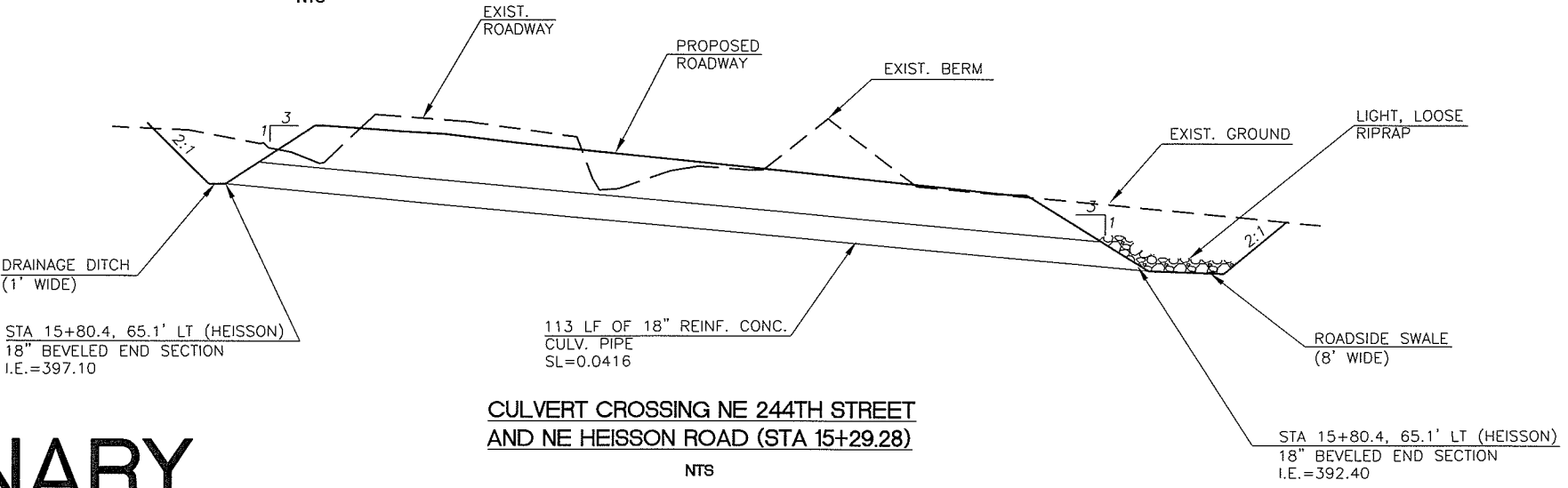
CULVERT CROSSING NE HEISSON RD
EAST OF NE 162ND AVE
NTS



DRIVEWAY CULVERT NE 244TH STREET
NTS



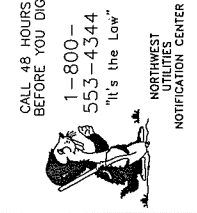
OUTFALL DISCHARGE PROTECTION
NTS



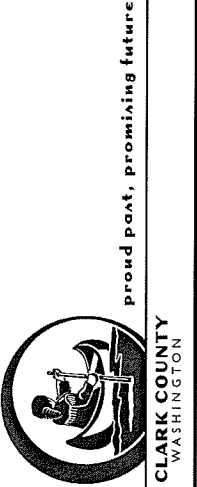
CULVERT CROSSING NE 244TH STREET
AND NE HEISSON ROAD (STA 15+29.28)
NTS

PRELIMINARY

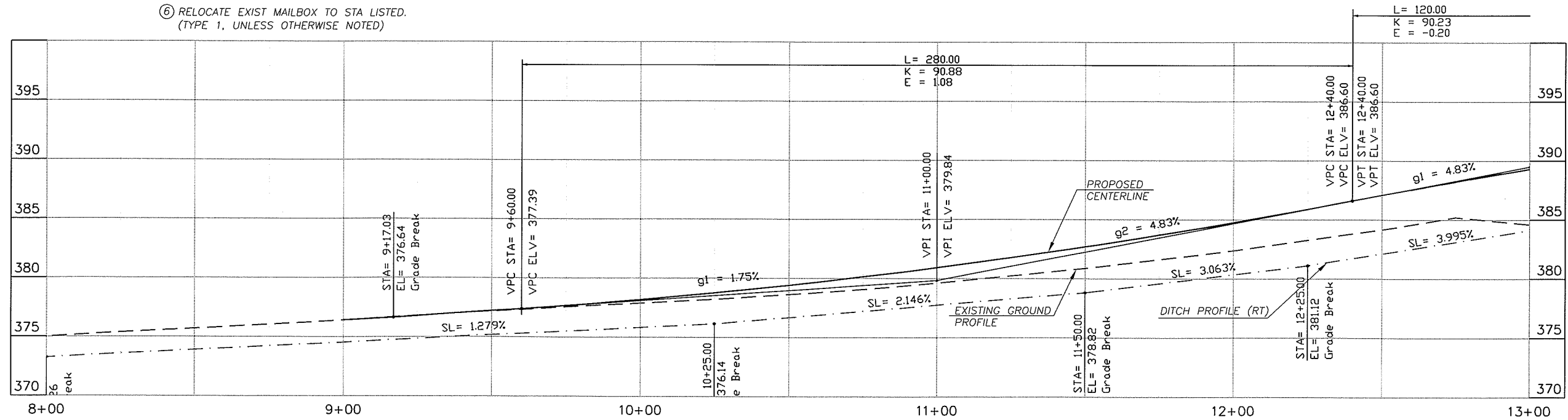
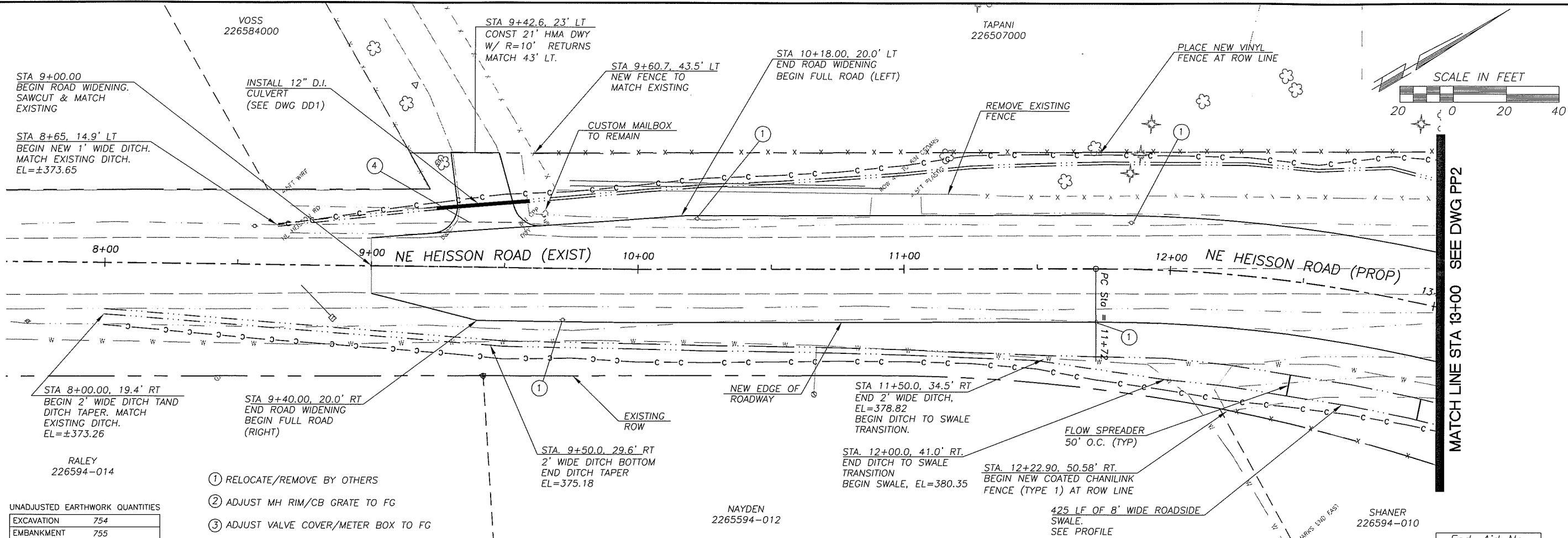
DESIGNED	TP/JM
DRAWN	RK
CRP	330722
HOR. SEE SHEET	1-800-553-4344
VERT. SEE SHEET	"It's the Low"
DATE	04/30/06
DWG.	DD1
SHEET	9 OF 16



ENGINEERING PROGRAM
DESIGN SECTION
NE HEISSON ROAD
DRAINAGE DETAILS



n:\CIP\PROJECTS\330722-NEHeissonRoad\DESIGN\DWGS\PP1.dwg, 4/28/2006 3:06:28 PM, kerrlinr



② PROFILE GRADE AND PIVOT POINT

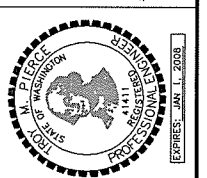
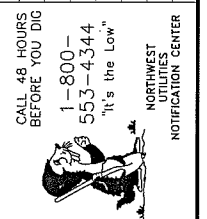
LT. & RT. -0.02 FT/FT

10+64.14 BEGIN
TRANSITION LT.

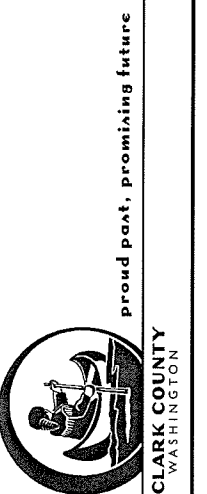
11+47.14 BEGIN
TRANSITION RT.

11+88.64 BEGIN
FULL SUPER

DESIGNED TP/JM
DRAWN RK
CRP 330722
HOR. SEE SHEET
VERT. SEE SHEET
DATE 04/30/06
DWG: PP1
SHEET 10 OF 16



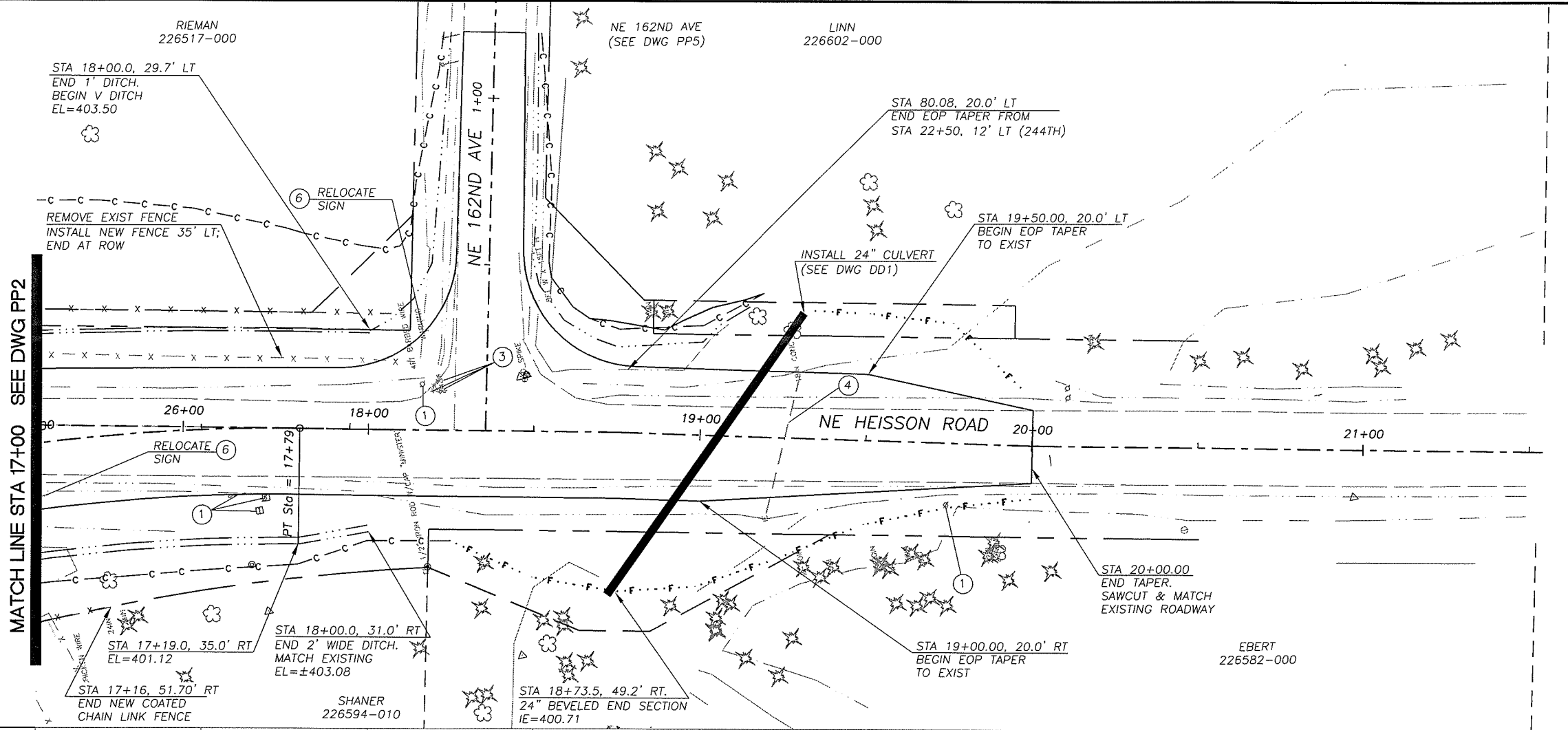
ENGINEERING PROGRAM
DESIGN SECTION
NE HEISSON ROAD
PLAN AND PROFILE (B.O.P. TO STA 13+00)



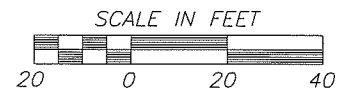
ENGINEERING PROGRAM
DESIGN SECTION

NE HEISSON ROAD
PLAN AND PROFILE (STA 13+00 TO STA 17+00)

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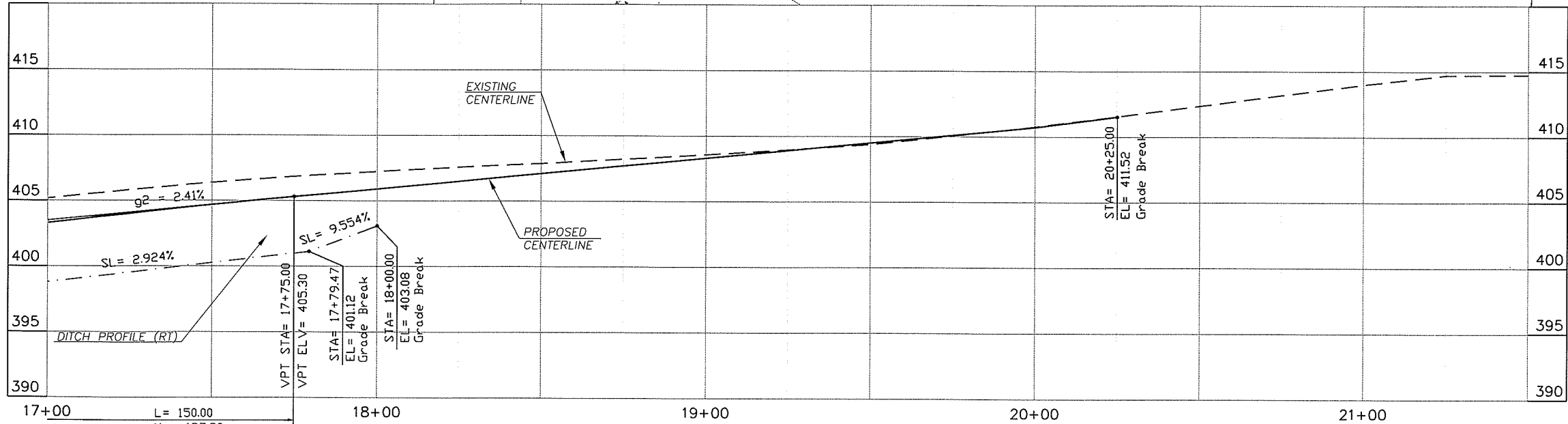
- ① RELOCATE/REMOVE BY OTHERS
② ADJUST MH RIM/CB GRATE TO FG
③ ADJUST VALVE COVER/METER BOX TO FG
④ REMOVE EXT CULVERT/DRAINAGE STRUCTURE
⑤ SAWCUT AND/OR MATCH EXT CURB AND/OR S/W.
⑥ RELOCATE EXIST MAILBOX TO STA LISTED.
(TYPE 1, UNLESS OTHERWISE NOTED)



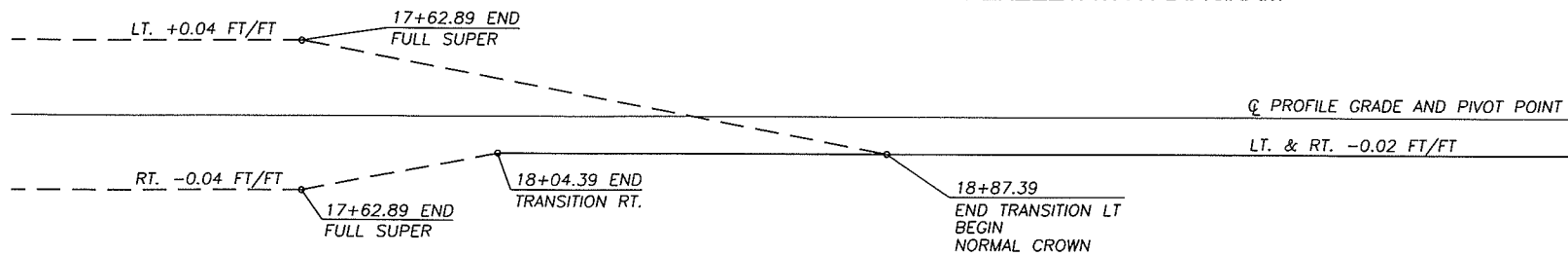
UNADJUSTED EARTHWORK QUANTITIES

EXCAVATION	2195
EMBANKMENT	335

HEISSON ONLY

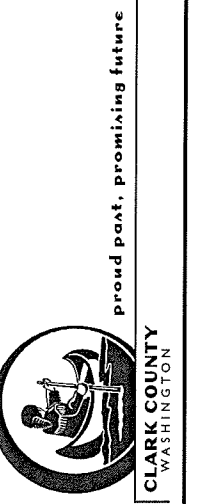
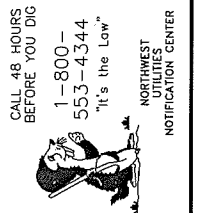


SUPERELEVATION DIAGRAM

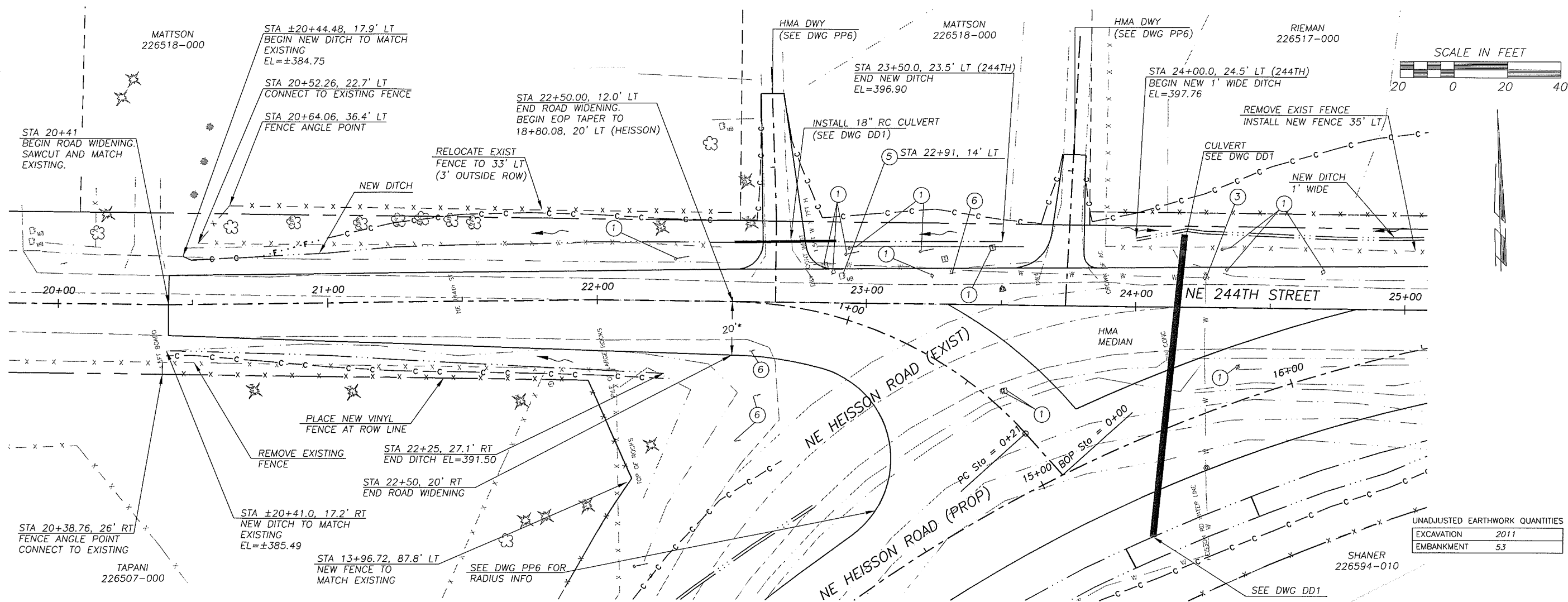


Fed. Aid No.
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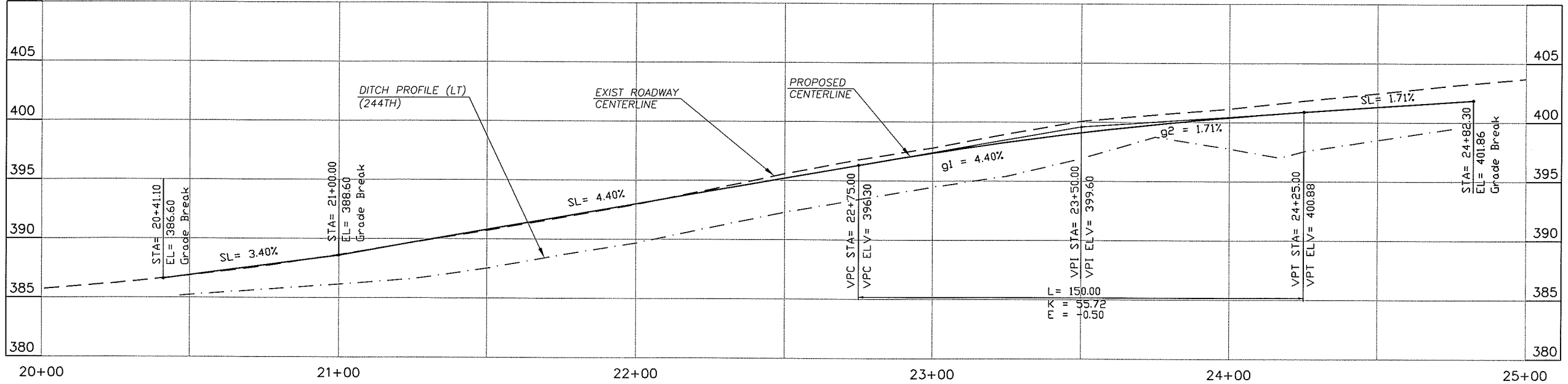
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DRAWN	RK
CRP	330722
HOR. SEE SHEET	1-800-553-4344
VERT. SEE SHEET	"It's the Low"
DATE	04/30/06
DWG.	PP3
SHEET	12 OF 16



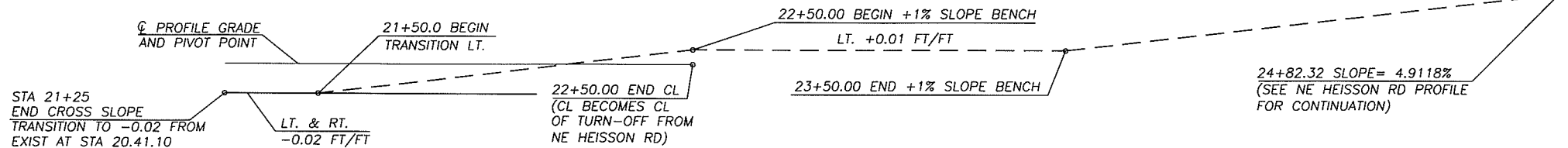
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UNADJUSTED EARTHWORK QUANTITIES	
EXCAVATION	2011
EMBANKMENT	53



SUPERELEVATION DIAGRAM



Fed. Aid No.
XXXXXXXXXXXX

DESIGNED TP/JM
DRAWN RK
CRP 330722
HOR. SEE SHEET 1-800-553-4344
VERT. SEE SHEET 553-4344
DATE 04/30/06
DWC: PP4
SHEET 13 OF 16

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Low"

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
NOTIFICATION CENTER
EXP. JAN 1, 2008

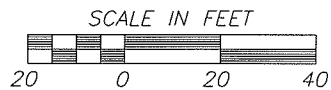
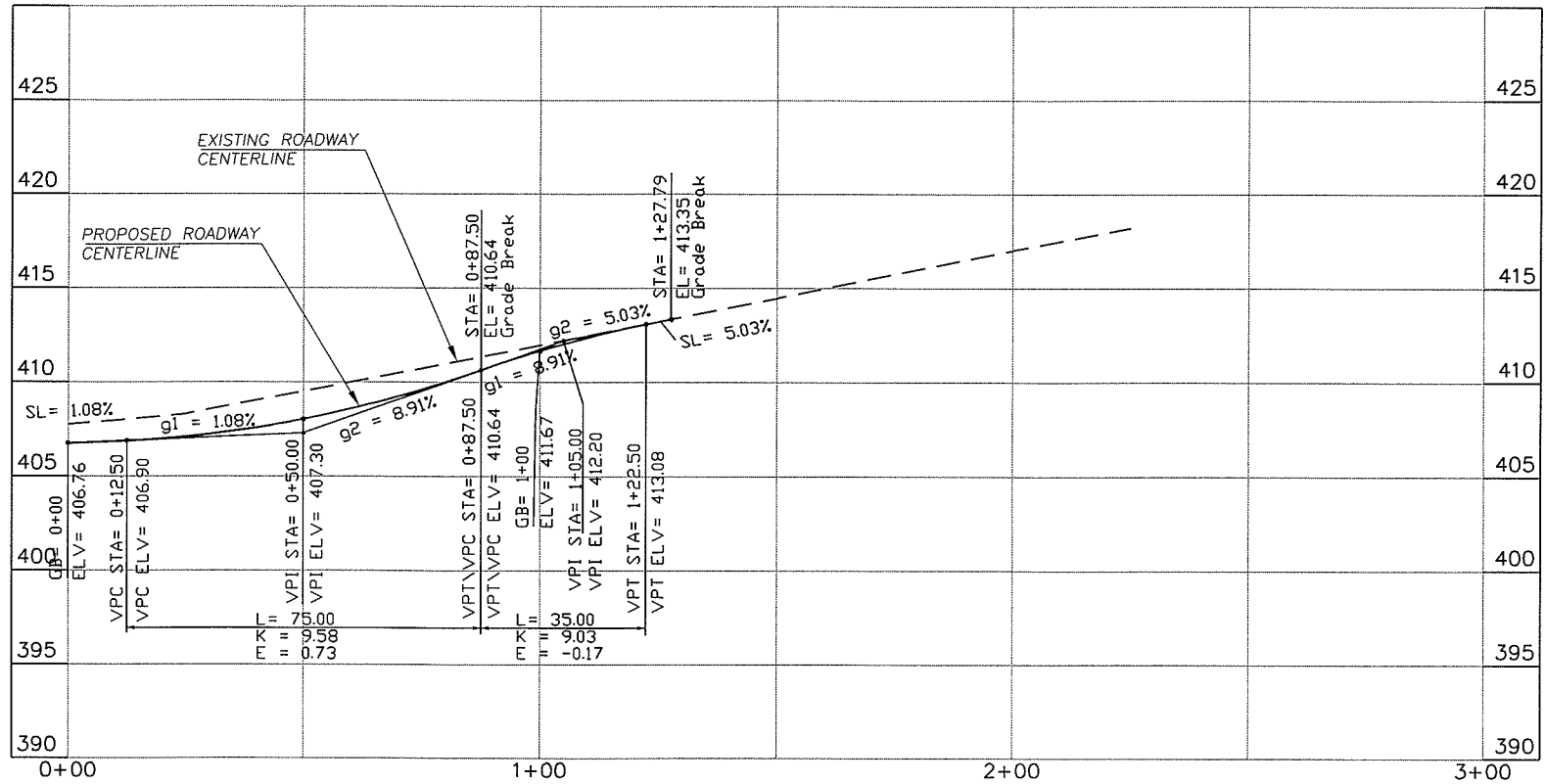
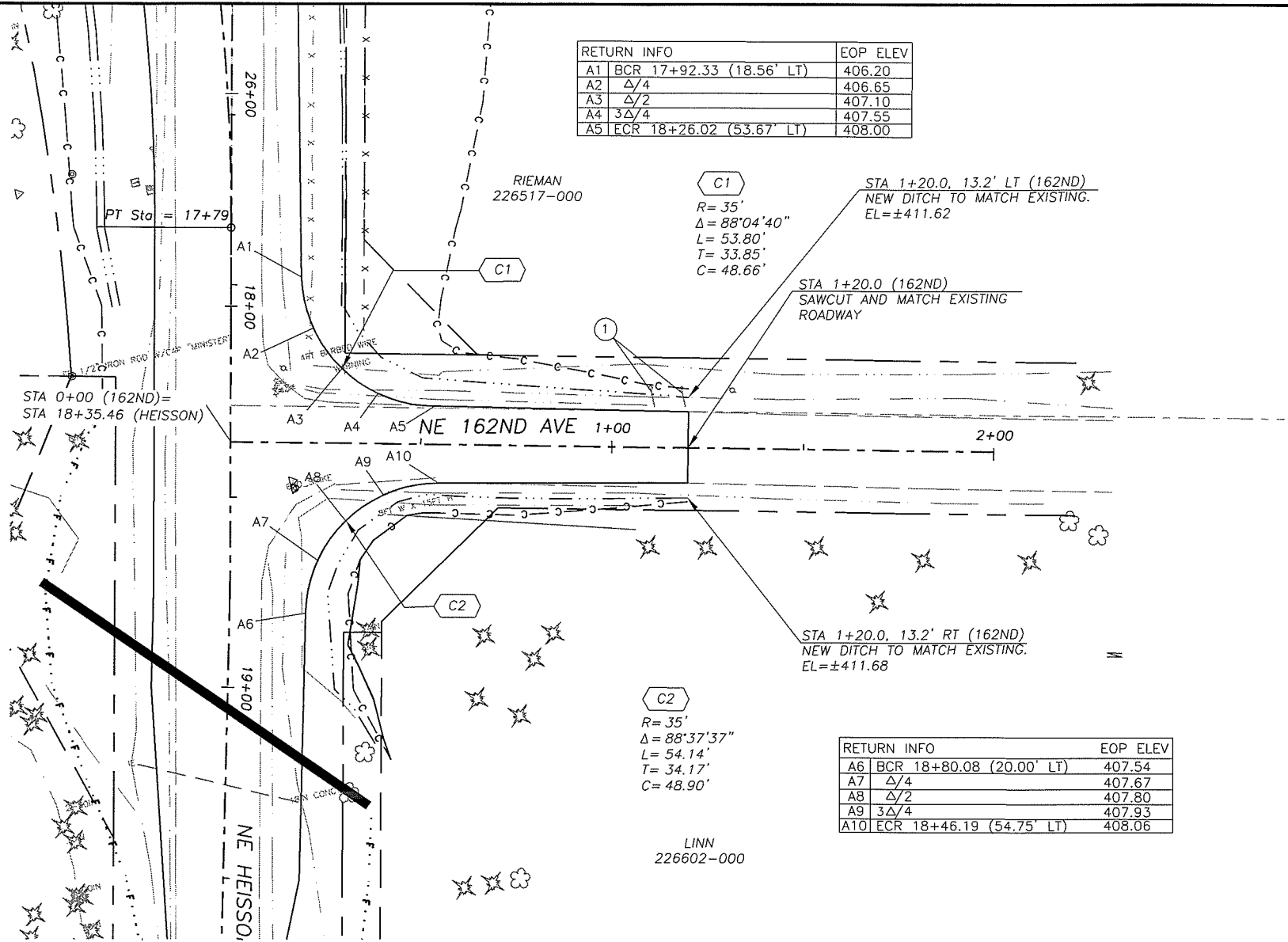
ENGINEERING PROGRAM
DESIGN SECTION
NE HEISSON ROAD
PLAN AND PROFILE (NE 244TH STREET)

CLARK COUNTY
WASHINGTON

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CLARK COUNTY
WASHINGTON

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UNADJUSTED EARTHWORK QUANTITIES	
EXCAVATION	264
EMBANKMENT	1

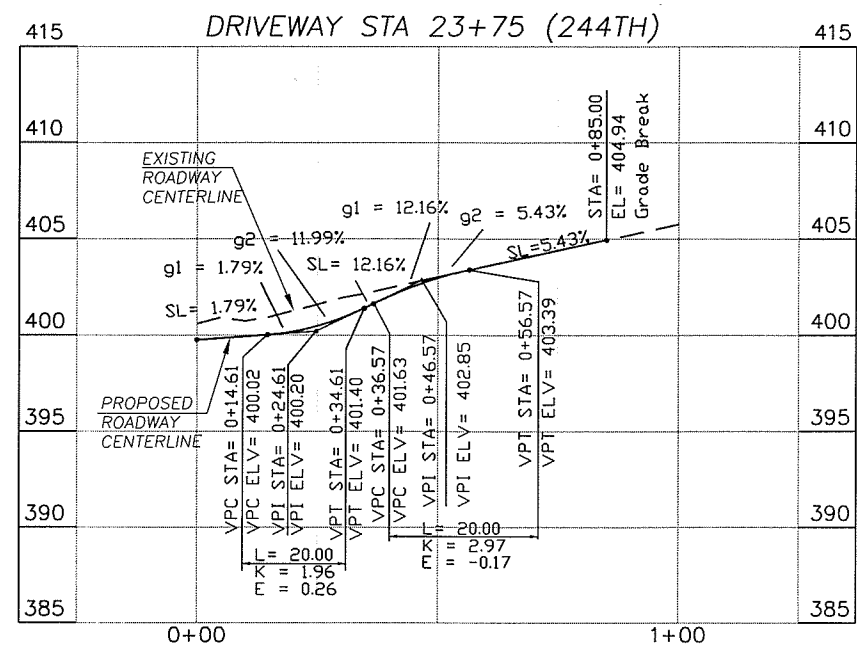
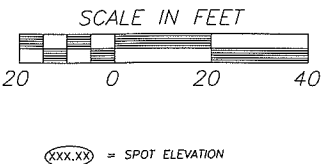
DESIGNED TP/JM
DRAWN RK
CRP 330722
HOR. SEE SHEET
VERT. SEE SHEET
DATE 04/30/06
DWG: PP5
SHEET 14 OF 16

CALL 48 HOURS BEFORE YOU DIG
1-800-553-4344
"It's the Low"
NORTHWEST MUTATION CENTER

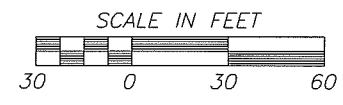
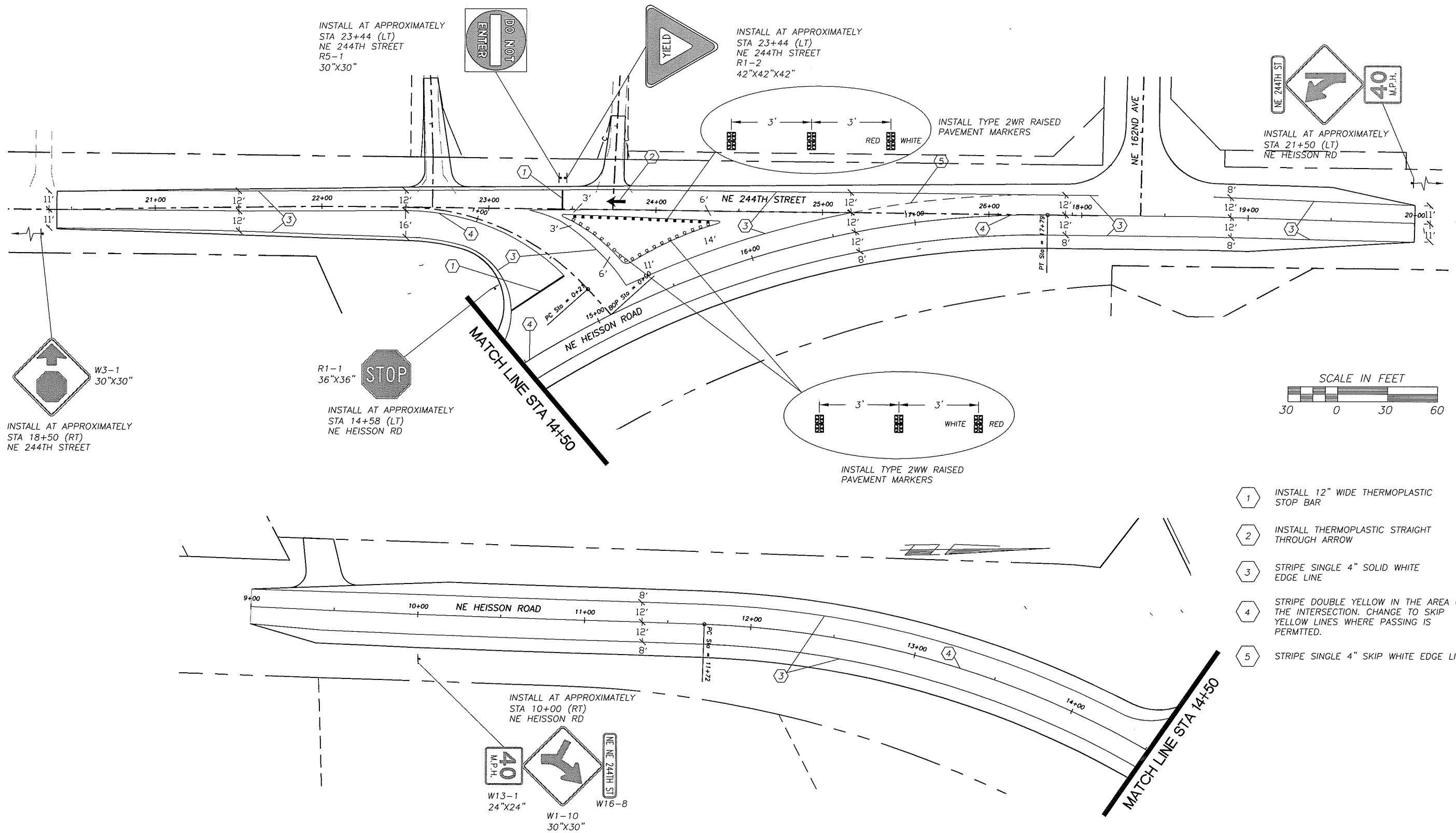
ENGINEERING PROGRAM
DESIGN SECTION
NE HEISSON ROAD
PLAN AND PROFILE (NE 162ND AVE)

CLARK COUNTY
WASHINGTON

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- 1 INSTALL 12" WIDE THERMOPLASTIC STOP BAR
- 2 INSTALL THERMOPLASTIC STRAIGHT THROUGH ARROW
- 3 STRIPE SINGLE 4" SOLID WHITE EDGE LINE
- 4 STRIPE DOUBLE YELLOW IN THE AREA OF THE INTERSECTION. CHANGE TO SKIP YELLOW LINES WHERE PASSING IS PERMITTED.
- 5 STRIPE SINGLE 4" SKIP WHITE EDGE LINE

Fed. Aid No.
XXXXXXXXXXXX

PRELIMINARY

DESIGNED	JP/UM
DRAWN	RK
CRP	330722
HOR.	SEE SHEET
VERT.	SEE SHEET
DATE	04/30/06
DWG.	SS1
SHEET	16 OF 16

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"It's the Low"

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DESIGN & ENGINEERING DIVISION
DESIGN SECTION
NE HEISSON ROAD
SIGNING & STRIPING

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